

Curriculum Vitae

SYLWIA PTASIŃSKA

CONTACT INFORMATION

Mailing address: Radiation Laboratory and Department of Physics
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EDUCATION

2002-2004	Leopold-Franzens University of Innsbruck (LFUI), Ion and Applied Physics Institute, Innsbruck, Austria	Graduate student in physics
2001-2002	Maria Curie Sklodowska University (UMCS), Lublin, Poland	Graduate student in physics
1996-2001	Maria Curie Sklodowska University (UMCS), Lublin, Poland	Undergraduate student in physics

ACADEMIC DEGREES

24 May 2011	Habilitation “Controlling Bond Cleavage in DNA Analogues by Low Energy Electrons and Cold Plasmas”	Thesis in molecular physics, LFIU, Austria
23 Nov. 2004	Doctor of Natural Sciences “Low-energy electron interactions with biomolecules” under supervision of Prof. Tilmann D. Märk	Thesis in physics, LFIU, Austria
26 June 2001	Master of Science “Mass spectrometry of gaseous clusters” under supervision of Prof. Leszek Michalak	Thesis in physics, UMCS, Poland

EMPLOYMENT

2022-present	Professor of Physics	University of Notre Dame (ND), IN, USA
2016-2022	Associate Professor	ND, USA
2015 - 2017	Concurrent Assistant/Associate Professor in First Year of Studies	ND, USA
2013 - 2016	Tom and Carolyn Marquez Assistant Professor of Biophysics	ND, USA
2010-2013	Assistant Professor	ND, USA
2010 - present	Notre Dame Radiation Laboratory Faculty Member	ND, USA
2008-2011	Guest Professor	LFUI, Innsbruck, Austria
2007-2010	Independent Post-doctoral Fellow	Open University, Milton Keynes, UK

2006	Post-doctoral Fellow	University of Sherbrooke, Canada
2005	Post-doctoral Fellow	LFUI, Austria
2002-2004	Research Assistant	LFUI, Austria
2002	Physics Shows	UMCS, Poland

AWARDS AND HONOROUS

- Editor board: Nature's Scientific Reports (2023-present)
- Editor in Chief of the European Physical Journal D: Atomic, Molecular, Optical and Plasma Physics: 2020-present
- Kaneb Center Faculty Fellow (2019-2020)
- 2019 Rev. Edmund P. Joyce, C.S.C., Awards for Excellence in Undergraduate Teaching
- Editorial Board of Multidisciplinary Digital Publishing Institute (MDPI) journal: Plasma, 2017-present
- Editorial Board of the European Physical Journal D: Atomic, Molecular, Optical and Plasma Physics: 2015-present
- College of Science Teaching Initiative, 2014
- Faculty Research Scholarship Program (FRSP) Initiation Grant, 2014
- Tom and Carolyn Marquez Assistant Professorship, 2013-2016
- Edison Innovation Award, 2013
- US member of COST Action: Nano-IBCT (Nano-Ion Beam Cancer Therapy) 2010 - 2014
- SIT Travel Award for the Annual Meeting of the Radiation Research Society, 2009, 2007, 2006, 2005
- 3rd Poster Prize, 2nd Annual CMBI Meeting, Vill, Tyrol, 30 September-1 October, 2005
- Award of Dr. Maria Schaumayer Foundation for the PhD thesis (Stiftungspreise und Förderpreise zur Unterstützung von Frauenkarrieren), 2005
- Award of Polish Vacuum Society for the best master thesis, 2002.

PROFESSIONAL MEMBERSHIPS

Society of Catholic Scientists (since 2016)
 American Association of Physics Teachers (since 2011)
 American Vacuum Society (since 2011)
 American Physics Society (since 2010)
 Radiation Research Society (2006-2010)
 Polish Vacuum Society (since 2001)

PUBLICATION LIST

(h-index = 36 @Web of Science, = 41 @Google Scholar)

Refereed (*reverse chronological order*):

1. D. Chakraborty, G. Kharchilava, I. Carmichael, S. Ptasinska - *Dissociative electron attachment studies of gas-phase acetic acid using a velocity map imaging technique*. Journal of Physics B: Atomic, Molecular and Optical Physics 56 (2024) 245202
2. F. Ducrozet, A. Sebastian, C.J. Garcia Villavicencio, S. Ptasinska, C. Sicard-Roselli - *Quantifying Hydroxyl Radicals Generated by a Low-Temperature Plasma using Coumarin: Methodology and Precautions*. Physical Chemistry Chemical Physics 26 (2024) 8651-8657
3. J. Wang, T. Musall, B.A. Chen, M. Gerges, L. Riney, S. Ptasinska, X. Liu, B.A. Assaf - *Evidence of indium impurity band in superconducting (Sn, In) Te thin films*. Physical Review B 109 (2024) 014513

4. A. Paul, I. Carmichael, D. Nandi, S. Ptasińska, D. Chakraborty - *Structural rearrangements and fragmentation pathways induced by a low-energy electron attachment to ethyl acetate*. arXiv preprint arXiv:2401.02366
5. D. Chakraborty, D.S. Slaughter, S. Ptasińska - *Dynamics of resonant low-energy electron attachment to ethanol-producing hydroxide anions*. *Physical Review A*, 108 (2023) 052806
6. J. Vujan, W. Huang, J. Ciganović, S. Ptasińska, R. Panajotović - *Direct Probing of Water Adsorption on Liquid-Phase Exfoliated WS₂ Films Formed by the Langmuir–Schaefer Technique*. *Langmuir* 39 (2023) 8055
7. X. Zhang, B.C. Wood, A.J.E. Rowberg, T.A. Pham, T. Ogitsu, J. Kapaldo, S. Ptasińska, *Kinetically versus thermodynamically controlled factors governing elementary pathways of GaP (111) surface oxidation*. *Journal of Power Sources* 560 (2023) 232663
8. A. Sebastian, D. Lipa, S. Ptasińska - *DNA Strand Breaks and Denaturation as Probes of Chemical Reactivity versus Thermal Effects of Atmospheric Pressure Plasma Jets*. *ACS Omega* 8 (2023) 1663–1670
9. S. Ptasińska, M.T.N. Varella, M.A. Khakoo, D.S. Slaughter, S. Denifl - *Electron scattering processes: fundamentals, challenges, advances, and opportunities*. *European Physical Journal D* 76 (2022) 179
10. A. Sebastian, D. Spulber, A. Lisouskaya, S. Ptasińska - *Revealing low-temperature plasma efficacy through a dose-rate assessment by DNA damage detection combined with machine learning models*. *Scientific Reports* 12 (2022) 18353
11. E. Alizadeh, D. Chakraborty, S. Ptasińska - *Low-Energy Electron Generation for Biomolecular Damage Inquiry: Instrumentation and Methods*. *Biophysica* 2 (2022) 475-497
12. D. Danilovic, A. Milosavljevic, P. Sapkota, R. Dojcilovic, D. Tosic, N. Vukmirovic, M. Jovic, V. Djokovic, S. Ptasińska, D. Bozanic, Dusan - *Electronic Properties of Silver-Bismuth Iodide Rudorffite Nanoplatelets*. *Journal of Physical Chemistry C* 126 (2022) 13739
13. B.A. Chen, S. Ptasińska, P.V. Kamat - *Metal Cocatalyst Dictates Electron Transfer in Ag-Decorated MoS₂ Nanosheets*. *Journal of Physical Chemistry C* 126 (2022) 11907
14. S. Ptasińska - *A Missing Puzzle in Dissociative Electron Attachment to Biomolecules: The Detection of Radicals*. *Atoms* 9 (2021) 77
15. H.A. Suarez-Moreno, L. Eckermann, F. Zappa, E. Arthur-Baidoo, S. Ptasińska, S. Denifl - *Electron ionization of clusters containing the formamide molecule*. *European Physical Journal D* 75 (2021) 1-11
16. E. Alizadeh, S. Ptasińska - *Recent Advances in Plasma-Based Cancer Treatments: Approaching Clinical Translation through an Intracellular View*. *Biophysica* 1 (2021) 48-72
17. V. Samara, Y. Sutton, N. Braithwaite, S. Ptasińska - *Acoustic characterization of atmospheric-pressure dielectric barrier discharge plasma jets*. *European Physical Journal D* 74 (2020) 169
18. R.D. Neal, R.A. Hughes, P. Sapkota, S. Ptasińska, S. Neretina - *Effect of Nanoparticle Ligands on 4-Nitrophenol Reduction: Reaction Rate, Induction Time, and Ligand Desorption*. *ACS Catalysis* 10 (2020) 10040–10050
19. S. Banerjee, E. Adhikari, P. Sapkota, A. Sebastian, S. Ptasińska - *Atmospheric Pressure Plasma Deposition of TiO₂: A Review*. *Materials* 13 (2020) 2931
20. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, E. Alizadeh, S. Ptasińska - *Large-Scale Image Analysis for Investigating Spatio-Temporal Changes in Nuclear DNA Damage Caused by Nitrogen Atmospheric Pressure Plasma Jets*. *International Journal of Molecular Sciences* 21 (2020) 4127,
21. J. Ameixa, E. Arthur-Baidoo, J. Pereira-da-Silva, M. Ryszka, I. Carmichael, L.M. Cornetta, M.T. do N. Varella, F. Ferreira da Silva, S. Ptasińska, S. Denifl - *Formation of resonances and anionic fragments upon electron attachment to benzaldehyde*. *Physical Chemistry Chemical Physics* 22 (2020) 8171-8181
22. X. Zhang, S. Ptasińska - *Dissociative adsorption of H₂O onto a Pt thin film in direct contact with GaN (0001): Effect of electronic communications between catalyst and a semiconducting*

- support. Applied Surface Science* 516 (2020) 146127
23. X. Zhang, T.A. Pham, T. Ogitsu, B.C. Wood, S. Ptasińska - *Modulation of Surface Bonding Topology: Oxygen Bridges on OH-Terminated InP (001)*. *Journal of Physical Chemistry C* 124 (2020), 3196–3203
 24. P. Sapkota, A. Aprahamian, K. Yu Chan, B. Frenz, K.T. Macon, S. Ptasińska, D. Robertson, K. Manukyan - *Irradiation-induced reactions at the CeO₂/SiO₂/Si interface*. *Journal of Chemical Physics* 152, (2020) 104704
 25. D. Danilović, D.K. Božanić, R. Dojčilović, N. Vukmirović, P. Sapkota, I. Vukašinović, V. Djoković, J. Bozek, Ch. Nicolas, S. Ptasińska, A.R. Milosavljević - *Aerosol Synthesis and Gas-Phase Photoelectron Spectroscopy of Ag-Bi-I Nanosystems*, *Journal of Physical Chemistry C* (2020)
 26. D. Chakraborty, L. Eckermann, I. Carmichael, S. Ptasińska - *Dissociative electron attachment to amide bond containing molecules: N-ethylformamide and N-ethylacetamide*. *Journal of Chemical Physics* 153 (2020) 224306
 27. J. Kapaldo, X. Han, S. Ptasińska - *Shielding-gas-controlled atmospheric pressure plasma jets: Optical emission, reactive oxygen species, and the effect on cancer cells*. *Plasma Processes and Polymers*, (2019) 1800169
 28. Z. Li, M. Ryszka, M.M. Dawley, I. Carmichael, K.B. Bravaya, S. Ptasińska - *Dipole-Supported Electronic Resonances Mediate Electron-Induced Amide Bond Cleavage*. *Physical Review Letters* 122 (2019), 073002
 29. Y. Pang, J. Yang, T.E. Curtis, S. Luo, D. Huang, Z. Feng, J.O. Morales-Ferreiro, P. Sapkota, F. Lei, J. Zhang, Q. Zhang, E. Lee, Y. Huang, R. Guo, S. Ptasińska, R.K. Roeder, T. Luo - *Exfoliated Graphene Leads to Exceptional Mechanical Properties of Polymer Composite Films*. *ACS Nano* 13 (2019), 1097-1106
 30. S.A. Pshenichnyuk, I.I. Fabrikant, A. Modelli, S. Ptasińska, A.S. Komolov - *Resonance electron interaction with five-membered heterocyclic compounds: Vibrational Feshbach resonances and hydrogen atom stripping*. *Physical Review A* 100 (2019) 012708
 31. X. Zhang, T. Ogitsu, B.C. Wood, T.A. Pham, S. Ptasińska - *Oxidation Induced Polymerization of InP Surface and Implications for Optoelectronic Applications*. *Journal of Physical Chemistry C* 123 (2019), 30893
 32. E.R. Adhikari, V. Samara, S. Ptasińska - *Total yield of reactive species originating from an atmospheric pressure plasma jet in real time*. *Biological Chemistry* 400 (2019) 93-100
 33. X. Liu, S.K. Bac, P. Sapkota, C. Gorsak, X. Li, S. Dong, S. Lee, S. Ptasińska, J.K. Furdyna, M. Dobrowolska - *In situ annealing of III_{1-x}Mn_xV ferromagnetic semiconductors*. *Journal of Vacuum Science & Technology B* 36 (2018) 02D102
 34. T.A. Pham, X. Zhang, B.C. Wood, D. Prendergast, S. Ptasińska, T. Ogitsu - *Integrating ab initio simulations and X-ray photoelectron spectroscopy: towards a realistic description of oxidized solid/liquid interfaces*. *Journal of Physical Chemistry Letters* 9 (2018) 194-203
 35. V. Samara, S. Ptasińska - *Interferometry of plasma bursts in helium atmospheric-pressure plasma jets*. *Journal of Vacuum Science & Technology A* 36 (2018) 04F402
 36. A.R. Milosavljevic, D. Bozanic, S. Sath, N. Vukmirovic, R. Dojcilovic, P. Sapkota, W. Huang, J.D. Bozek, Ch. Nicolas, L. Nahon, S. Ptasińska - *Electronic Properties of Free-Standing Surfactant-Capped Lead Halide Perovskite Nanocrystals Isolated in Vacuo*. *Journal of Physical Chemistry Letters* 9 (2018) 3604-3011
 37. E.R. Adhikari, V. Samara, S. Ptasińska - *Influence of O₂ or H₂O in a plasma jet and its environment on plasma electrical and biochemical performances*. *Journal of Physics D-Applied Physics* 51 (2018) 185202
 38. Z. Li, I. Carmichael, S. Ptasińska - *Dissociative Electron Attachment induced Ring Opening in Five-Membered Heterocyclic Compounds*. *Physical Chemistry Chemical Physics* 20 (2018) 18271-18278
 39. W. Huang, S. Sadhu, P. Sapkota, S. Ptasińska - *In situ identification of cation-exchange-*

- induced reversible transformations of 3D and 2D perovskites*. Chemical Communications 54 (2018) 5879-5882
40. X. Zhang, Y.S. Chen, P.V. Kamat, S. Ptasińska - *Probing interfacial electrochemistry on a Co_3O_4 water oxidation catalyst using lab-based ambient pressure X-ray photoelectron spectroscopy*. Journal of Physical Chemistry C 122 (2018) 13894-13901
 41. V. Kanzyuba, S. Dong, X. Liu, X. Li, S. Rouvimov, H. Okuno, H. Mariette, X. Zhang, S. Ptasińska, B.D. Tracy, D.J. Smith, M. Dobrowolska, J.K. Furdyna - *Structural evolution of dilute magnetic (Sn, Mn) Se films grown by molecular beam epitaxy*. Journal of Applied Physics 121 (2017) 075301
 42. A. Ribar, K. Fink, Z. Li, S. Ptasińska, I. Carmichael, L. Feketeová, S. Denifl - *Stripping off hydrogens in imidazole triggered by the attachment of a single electron*. Physical Chemistry Chemical Physics 19 (2017) 6406-6415
 43. X. Zhang, Ch-G. Wang, W. Ji, S. Ptasińska - *Evolution of $\text{CH}_3\text{NO}_2/\text{Si}$ interfacial chemistry under reaction conditions: a combined experimental and theoretical study*. Chemical Communications 53 (2017) 3342-3345
 44. L.V. Trandafilovic, D.J. Jovanovic, X. Zhang, S. Ptasińska, M.D. Dramicanin, - *Enhanced photocatalytic degradation of methylene blue and methyl orange by ZnO:Eu nanoparticles*. Applied Catalysis B-environmental, 203 (2017) 740-752
 45. Z. Li, A.R. Milosavljević, I. Carmichael, S. Ptasińska - *Characterization of Neutral Radicals from a Dissociative Electron Attachment Process*. Physical Review Letters 119 (2017) 053402
 46. J. Yang, Y. Pang, W. Huang, S.K. Shaw, J. Schiffbauer, M.A. Pillers, X. Mu, S. Luo, T. Zhang, Y. Huang, G. Li, S. Ptasińska, M. Lieberman, T. Luo - *Functionalized Graphene Enables Highly Efficient Solar Thermal Steam Generation*. ACS Nano 11 (2017) 5510-5518
 47. M. Ryszka, E. Alizadeh, Z. Li, S. Ptasińska - *Low-energy electron-induced dissociation in gas-phase nicotine, pyridine, and methyl-pyrrolidine*. Journal of Chemical Physics 147 (2017) 094303
 48. W. Huang, S. Sadhu, S. Ptasińska - *Heat-and Gas-Induced Transformation in $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskites and Its Effect on the Efficiency of Solar Cells*. Chemistry of Materials 29 (2017) 8478-8485
 49. J.D. Gorfinkiel, S. Ptasińska - *Electron scattering from molecules and molecular aggregates of biological relevance*. Journal of Physics B: Atomic, Molecular, Optical Physics (2017) 182001
 50. W. Huang, J. Manser, P.V. Kamat, S. Ptasińska - *Evolution of Chemo-structural Composition and Photovoltaic Efficiency of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite under Ambient Conditions*. Chemistry of Materials 28 (2016) 303-3011
 51. X. Zhang, S. Ptasińska - *Heterogeneous Oxygen-containing Species Formed via Oxygen or Water Dissociative Adsorption onto a Gallium Phosphide Surface*. Topics in Catalysis 59 (2016) 564-573
 52. W. Huang, S. Ptasińska - *Functionalization of Graphene by Atmospheric Pressure Plasma Jet in Air or H_2O_2 environments*. Applied Surface Science 367 (2016) 160-166
 53. M.A. Smialek, M.A. MacDonald, S. Ptasińska, L. Zuin, N.J. Mason - *Photoelectron and threshold valence spectra of Pyridine*. European Physical Journal D 70 (2016) 1-7
 54. X. Zhang, S. Ptasińska - *Electronic and chemical structure of the $\text{H}_2\text{O}/\text{GaN}(0001)$ interface under ambient conditions*. Scientific Reports 6 (2016) 24848
 55. X. Zhang, S. Ptasińska - *High pressure Induced Pseudo-Oxidation of Copper Surface by Carbon Monoxide*. ChemCatChem 8 (2016) 1632 also appeared as a back cover
 56. T. Jiang, X. Zhang, S. Vishwanath, X. Mu, V. Kanzyuba, D.A. Sokolov, S. Ptasińska, D.B. Go, H. Xing, T. Luo - *Covalent Bonding Modulated Graphene-Metal Interfacial Thermal Transport*. Nanoscale 8 (2016) 10993-11001
 57. R. Panajotovic, S. Ptasińska, V. Lyamayev, K. Prince - *Low-energy electron damage of DPPC molecules - a NEXAFS study*. Radiation and Applications 1 (2016) 46-50
 58. W. Huang, J.S. Manser, S. Sadhu, P.V. Kamat, S. Ptasińska - *Direct Observation of Reversible*

- Transformation of CH₃NH₃PbI₃ and NH₄PbI₃ Induced by Polar Gaseous Molecules.* Journal of Physical Chemistry Letters 7 (2016) 7 5068-5073
59. Z. Li, M.M. Dawley, I. Carmichael, S. Ptasinska - *Electron-Induced Fragmentation of Methylated Formamides.* International Journal of Mass Spectrometry 410 (2016) 36-46
 60. K.P. Arjunan, A. Obrusník, B.T. Jones, L. Zajíčková, S. Ptasinska - *Effect of Additive Oxygen on the Reactive Species Profile and Microbicidal Property of a Helium Atmospheric Pressure Plasma Jet.* Plasma Processes and Polymers 13 (2016) 1087-1103
 61. E.R. Adhikari, S Ptasinska - *Correlation between helium atmospheric pressure plasma jet (APPJ) variables and plasma induced DNA damage.* European Physical Journal D 70 (2016) 180
 62. T.X.T. Sayle, F. Caddeo, X. Zhang, T. Sakthivel, S. Das, S. Seal, S. Ptasinska, D.C. Sayle - *Structure–Activity Map of Ceria Nanoparticles, Nanocubes, and Mesoporous Architectures.* Chemistry of Materials 28 (2016), 7287-7295
 63. A.R. Milosavljević, W. Huang, S. Sadhu, S. Ptasinska - *Low-Energy Electron-Induced Transformations in Organolead Halide Perovskite.* Angewandte Chemie International Edition 128 (2016) 10237-10241
 64. X. Zhang, S. Ptasinska - *Evolution of surface-assisted oxidation of GaAs (100) by gas-phase N₂O, NO, and O₂ under near-ambient pressure conditions.* Journal of Physical Chemistry C 119 (2015) 262-270
 65. K.P. Arjunan, V.K. Sharma, S. Ptasinska - *Effects of Atmospheric Pressure Plasmas on Isolated and Cellular DNA – A Review.* International Journal of Molecular Sciences 16 (2015) 2971-3016
 66. X. Zhang, S. Ptasinska - *Distinct and dramatic water dissociation on GaP (111) tracked by near ambient pressure XPS.* Physical Chemistry Chemical Physics 17 (2015) 3909-3918
 67. M.A. Smialek, S. Ptasinska, J. Gow, S.V. Hoffman, N.J. Mason - *Radio- and photosensitization of DNA with compounds containing platinum and bromide atoms.* European Physical Journal D 69 (2015) 121(1-6)
 68. O. Plekan, V. Feyer, A. Cassidy, V. Lyamayev, N. Tsud, S. Ptasinska, S. Reiff, R.G. Acres, K.C. Prince - *Functionalisation and immobilisation of an Au(110) surface via uracil and 2-thiouracil anchored layer.* Physical Chemistry Chemical Physics 17 (2015) 15181-15192
 69. M.M. Dawley, K. Tanzer, I. Carmichael, S. Denifl, S. Ptasinska - *Dissociative electron attachment to the gas-phase nucleobase hypoxanthine.* Journal of Chemical Physics 142 (2015) 215101
 70. I. Tolbatov, P. Bartl, J. Yurkovich, P. Scheier, D.M. Chipman, S. Denifl, S. Ptasinska - *Monocarbon cationic cluster yields from N₂/CH₄ mixtures embedded in He nanodroplets and their calculated binding energies.* Journal of Chemical Physics 140 (2014) 034316(1-8)
 71. X. Zhang, S. Ptasinska - *Dissociative Adsorption of Water on an H₂O/GaAs(100) Interface: In Situ Near-Ambient Pressure XPS Studies.* Journal of Physical Chemistry C 118 (2014) 4259-4266
 72. M.M. Dawley, S. Ptasinska - *Dissociative electron attachment to gas-phase N-methylformamide,* International Journal of Mass Spectrometry 365-366 (2014) 143-151
 73. X. Zhang, S. Ptasinska - *Growth of Silicon Oxynitride Films by Atmospheric Pressure Plasma Jet.* Journal of Physics D-Applied Physics 47 (2014) 145202(1-9)
 74. X. Han, W.A. Cantrell, E.E. Escobar, S. Ptasinska – *Plasmid DNA Damage Induced by Helium Atmospheric Pressure Plasma Jet.* European Physical Journal D 68 (2014) 46(1-7)
 75. M.A. Smialek, S. Ptasinska, J. Gow, C. DaPieve, N.J. Mason - *Radiosensitization of DNA in presence of Pt(II)-based compounds.* European Physical Journal D 68 (2014) 85(1-5)
 76. O. Plekan, V. Feyer, S. Ptasinska, N. Tsud, K.C. Prince - *Cyclic dipeptide immobilization on Au(111) and Cu(110) surfaces.* Physical Chemistry Chemical Physics 16 (2014) 6657-6665

77. B. Bahnev, M.D. Bowden, A. Stypczyńska, S. Ptasińska, N.J. Mason, N.St.J. Braithwaite - *A novel method for the detection of plasma jet boundaries by exploring DNA damage*. European Physical Journal D 68 (2014) 140(1-5)
78. X. Zhang, E. Lamere, X. Liu, J.K. Furdyna, S. Ptasińska - *Morphology dependence of interfacial oxidation states of gallium arsenide under near ambient conditions*. Applied Physics Letters 104 (2014) 181602(1-4)
79. X. Zhang, E. Lamere, X. Liu, J.K. Furdyna, S. Ptasińska - *Interface chemistry of H₂O on GaAs nanowires probed by near ambient pressure X-ray photoelectron spectroscopy*. Chemical Physics Letters 605-606 (2014) 51-55
80. F. Sun, T. Zhang, M.M. Jobbins, Z. Guo, X. Zhang, Z. Zheng, D. Tang, S. Ptasińska, T. Luo* - *Molecular Bridge Enables Anomalous Enhancement in Thermal Transport across Hard-Soft Material Interfaces*. Advanced Materials 26 (2014) 6093-6099
81. M.M. Dawley, K. Tanzer, W.A. Cantrell, P. Plattner, N.R. Brinkmann, P. Scheier, S. Denifl, S. Ptasińska - *Electron ionization of the nucleobases adenine and hypoxanthine near the threshold: a combined experimental and theoretical study*. Physical Chemistry Chemical Physics 16 (2014) 25039-25053
82. X. Han, Y. Liu, M.S. Stack, S. Ptasińska - *3D Mapping of plasma effective areas via detection of cancer cell damage induced by atmospheric pressure plasma jets*. Journal of Physics: Conference Series 565 (2014) 012011(1-6)
83. S. Jheeta, A. Domaracka, S. Ptasińska, B. Sivaraman, N. Mason - *The Irradiation of pure CH₃OH and 1:1 Mixture of NH₃:CH₃OH Ices at 30 K using Low Energy Electrons*. Chemical Physics Letters 556 (2013) 359-364
84. M. Klas, S. Ptasińska - *Characteristics of N₂ and N₂/O₂ atmospheric pressure glow discharges*. Plasma Sources Science & Technology 22 (2013) 025013(1-7)
85. X. Han, M. Klas, Y. Liu, S.M. Stack, S. Ptasińska - *DNA damage in oral cancer cells induced by nitrogen atmospheric pressure plasma jets*. Applied Physics Letters 102 (2013) 233703(1-5)
86. F. Ferreira da Silva, C. Matias, D. Almeida, G. García, O. Ingólfsson, H. Dögg Flosadóttir, B. Ómarsson, S. Ptasińska, B. Puschnigg, P. Scheier, P. Limão-Vieira, S. Denifl - *NCO⁻, a Key Fragment Upon Dissociative Electron Attachment and Electron Transfer to Pyrimidine Bases: Site Selectivity for a Slow Decay Process*. Journal of the American Society for Mass Spectrometry 24 (2013) 1787-1797
87. S. Jheeta, S. Ptasińska, B. Sivaraman, N. Mason - *The irradiation of 1:1 mixture of ammonia:carbon dioxide ice at 30 K using 1 keV electrons*. Chemical Physics Letters 543 (2012) 208-212
88. S. Ptasińska, I. Tolbatov, P. Bartl, J. Yurkovich, B. Coffey, D. M. Chipman, C. Leidlmair, H. Schöbel, P. Scheier, N.J. Mason - *Electron impact on N₂/CH₄ mixtures in He droplets - Probing chemistry in Titan's atmosphere*, RSC Advances, 2 (2012) 10492-10495,
89. V. Feyer, O. Plekan, S. Ptasińska, M. Iakhnenko, N. Tsud, K. Prince - *Adsorption of Histidine and a Histidine Tripeptide on Au(111) and Au(110) from Acidic Solution*. Journal of Physical Chemistry C 116 (2012) 22960-22966
90. E. Alizadeh, D. Gschliesser, P. Bartl, M. Hager, A. Edtbauer, V. Vizcaino, A. Mauracher, M. Probst, T. Maerk, S. Ptasińska, N. Mason, S. Denifl, P. Scheier - *Bond dissociation of the dipeptide dialanine and its derivative alanine anhydride induced by low energy electrons*. Journal of Chemical Physics 134 (2011) 054305(1-9)
91. F. Ferreira da Silva, S. Ptasińska, S. Denifl, D. Gschliesser, J. Postler, C. Matias, T. D. Märk, P. Limão-Vieira, P. Scheier - *Electron interaction with nitromethane embedded in helium droplets: attachment and ionization measurements*. Journal of Chemical Physics 135 (2011) 174504
92. S. Ptasińska, D. Gschliesser, P. Bartl, I. Janik, P. Scheier, S. Denifl - *Dissociative electron attachment to triflates*, Journal of Chemical Physics 135 (2011) 214309(1-6)

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94. S. Ptasińska, B. Bahnev, A. Stypczynska, M.D. Bowden, N.J. Mason, N.St.J. Braithwaite – *DNA strand scission induced by a non-thermal atmospheric pressure plasma jet*. Physical Chemistry Chemical Physics 12 (2010) 7779-7781
95. S. Ptasińska, Z. Li, N.J. Mason, L. Sanche - *Damage to amino acid-nucleotide pairs induced by 1 eV electrons*. Physical Chemistry Chemical Physics 12 (2010) 9367-9371
96. A. Stypczynska, S. Ptasińska, B. Bahnev, M.D. Bowden, N.St.J. NBraithwaite, N.J. Mason - *The influence of amino acids on DNA damage induced by cold plasma radiation*. Chemical Physics Letters 500 (2010) 313-317
97. S. Ptasińska, N.J. Mason, C.A. Hunniford, R.W. McCullough, S. Denifl, A. Mauracher, P. Scheier - *Desorption of small ionic fragments from oligonucleotides induced by low energy carbon ions*. European Physical Journal D 60 (2010) 59-63,
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99. M. Bazin, S. Ptasińska, A.D. Bass, L. Sanche – *Electron induced dissociation in condensed-phase nitromethane I: desorption of ionic fragments*. Physical Chemistry Chemical Physics 10 (2009) 1610-1618
100. I. Dabkowska, H. Dögg Flosadóttir, M. Orzol, S. Ptasińska, I. Bald, O. Ingólfsson, E. Illenberger - *Reactions in gas phase and condensed phase C_6F_5X ($X = NCO, CH_2CN$) triggered by low energy electrons*. Physical Chemistry Chemical Physics 11 (2009) 5323-5330
101. M. Bazin, S. Ptasińska, A.D. Bass, L. Sanche, E. Burean and P. Swiderek – *Electron induced dissociation in condensed-phase nitromethane II: desorption of neutral fragments*. 12th International Workshop on Desorption Induced by Electronic Transition (DIET 12), 19-23 April, (2009) Pine Mt., USA. Journal of Physics - Condensed Matter, 22 (2010) 084003(1-9)
102. P. Sulzer, F. Rondino, S. Ptasińska, E. Illenberger, T.D. Märk, P. Scheier – *Probing Trinitrotoluene (TNT) by low energy electrons. strong fragmentation following attachment of electrons near 0 eV*. International Journal of Mass Spectrometry 272 (2008) 149-153
103. R. Abouaf, S. Ptasińska, D. Teillet-Billy – *Low energy electron impact on gas phase 5-nitrouracil*. Chemical Physics Letters 455 (2008) 169-173
104. M. Probst, N. Injan, S. Denifl, F. Zappa, I. Mähr, M. Beikircher, S. Ptasińska, J. Limtrakul, T. D. Märk, A. Mauracher, P. Scheier - *Calculation of Processes Relevant to Reactions Between Nucleic Acids and Free Electrons*. Chemical Engineering Communications 195 (2008) 1371-1381
105. S. Jheeta, A. Lafosse, B. Sivaraman, S. Ptasińska, N. Mason - *Irradiation of a homogeneous mixture of ammonia and carbon dioxide (NH_3, CO_2) at low temperatures*. International Journal of Astrobiology 7 (2008) 72-72
106. V. Bernigaud, H. Cederquist, N. Haag, A.I.S. Holm, B.A. Huber, P. Hvelplund, U. Kadhane, M.K. Larsen, B. Manil, S. Brøndsted Nielsen, S. Panja, S. Ptasińska, J. Rangama, P. Reinhard, H.T. Schmidt, A.V. Streltskii, K. Stöckel, E.S. Worm, and H. Zettergren - *Electron capture induced dissociation of AK dipeptide dications: influence of ion velocity, crown-ether complexation and collision gas*. International Journal of Mass Spectrometry 276 (2008) 77-81
107. B. Sivaraman, S. Ptasińska, S. Jheeta, N.J. Mason – *Electron irradiation of solid nitrous oxide*. Chemical Physics Letters 460 (2008) 108-111
108. S. Ptasińska, A.D. Bass, L. Sanche - *Low energy electron attachment to condensed formic acid*. Journal of Physics: Conference Series 115 (2008) 012018(1-8)

109. S. Ptasińska, E. Alizadeh, P. Sulzer, R. Abouaf, N.J. Mason, T.D. Märk, P. Scheier – *Negative ion formation by low energy electron attachment to gas phase 5-nitrouracil*. International Journal of Mass Spectrometry 277 (2008) 291-295
110. S. Ptasińska, A. Stypczyńska, T. Nixon, N.J. Mason, D.V. Klyachko, L. Sanche – *X-ray radiation induced damage in DNA monitored by XPS*. Journal of Chemical Physics 129 (2008) 065102(1-6), also selected to Virtual Journal of Biological Physics Research
111. S. Denifl, S. Ptasińska, F. Zappa, I. Mähr, V. Grill, M. Probst, E. Illenberger, T.D. Märk, P. Scheier – *Dissociative Electron Attachment to Thymine: Bond and Site Selectivity in Different Molecular Environments*. Atomic and Molecular Data and Their Applications: 5th International Conference on Atomic and Molecular Data and Their Applications (ICAMDATA), AIP Conference Proceedings, 901 (2007) 137-146
112. S. Ptasińska and L. Sanche – *Dissociative electron attachment to abasic DNA*. Physical Chemistry Chemical Physics 9 (2007) 1730-1735
113. S. Ptasińska and L. Sanche – *Dissociative electron attachment to hydrated single DNA strands*. Physical Review E 75 (2007) 031915(1-5), also selected to Virtual Journal of Biological Physics Research 13 (2007)
114. S. Ptasińska and L. Sanche – *Low energy electron stimulated desorption of ions from whole human blood*. International Journal of Mass Spectrometry 263 (2007) 179-184
115. P. Sulzer, A. Mauracher, S. Denifl, F. Zappa, S. Ptasińska, M. Beikircher, A. Bacher, N. Wendt, A. Aleem, F. Rondino, S. Matejcik, M. Probst, T.D. Märk, P. Scheier – *Identification of isomers of nitrotoluene via free electron attachment*. Analytical Chemistry 79 (2007) 6585-6591
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117. S. Ptasińska, S. Denifl, P. Scheier, T.D. Märk, S. Gohlke, E. Illenberger - *Decomposition of thymidine by low energy electrons. Implications for the molecular mechanisms of single strand breaks in DNA*. Angewandte Chemie International Edition 45 (2006) 1893-1896, also published in Angewandte Chemie (in German) *Fragmentierung von Thymidin durch niederenergetische Elektronen: Implikationen für den Mechanismus von Einzelstrangbrüchen in DNA*. Angew. Chem. 118 (2006) 1926-1930
118. P. D. Burrow, G. A. Gallup, A. M. Scheer, S. Denifl, S. Ptasińska, T. Märk, and P. Scheier - *Vibrational Feshbach resonances in uracil and thymine*. Journal of Chemical Physics 124 (2006) 124310, also selected to Virtual Journal of Biological Physics Research 11 (2006)
119. P. Sulzer, S. Ptasińska, F. Zappa, B. Mielewska, A.R. Milosavljevic, P. Scheier, T.D. Märk, I. Bald, S. Gohlke, M.A. Huels, and E. Illenberger - *Dissociative electron attachment to furan, tetrahydrofuran and fructose*. Journal of Chemical Physics 125 (2006) 044304(1-6) , also selected to Virtual Journal of Biological Physics Research 12 (2006)
120. S. Feil, M. Winkler, P. Sulzer, S. Ptasińska, S. Denifl, F. Zappa, B. Kräutler, T.D. Märk and P. Scheier - *Single, double and triple ionization of tetraphenyl iron (III) porphyrin chloride*. International Journal of Mass Spectrometry 255-256 (2006) 232-238
121. S. Ptasińska and L. Sanche – *On the mechanism of anion desorption from DNA induced by low energy electrons*. Journal of Chemical Physics 125 (2006) 144713, also selected to Virtual Journal of Biological Physics Research 12 (2006)

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123. S. Ptasińska, P. Limão-Vieira, S. Denifl, P. Scheier, T. D. Märk - *Electron attachment to monomeric and dimeric forms of glycolaldehyde*. Chemical Physics Letters 401 (2005) 227-231
124. S. Ptasińska, S. Denifl, P. Candori, S. Matejcik, P. Scheier, T. D. Märk - *Dissociative electron attachment to gas phase alanine*. Chemical Physics Letters 403 (2005) 107-112
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126. S. Ptasińska, S. Denifl, P. Scheier, T. D. Märk - *Electron impact ionization of glycolaldehyde*. International Journal of Mass Spectrometry 243 (2005) 171-176
127. A. Smolira, S. Ptasińska, M. Smolira, L. Michalak - *Matrix-assisted laser desorption/ionization detection of hemoglobin from long-stored samples of human blood*. Vacuum 78 (2005) 655-660
128. S. Ptasińska, P. Candori, S. Denifl, S. Yoon, V. Grill, P. Scheier, T. D. Märk - *Dissociative ionization of the nucleosides thymine and uridine by electron impact*. Chemical Physics Letters 409 (2005) 270-276
129. S. Ptasińska, S. Denifl, V. Grill, T. D. Märk, E. Illenberger, P. Scheier - *Bond- and site-selective loss of H from pyrimidine bases* - Physical Review Letters 95, (2005) 093201(1-4), also selected to Virtual Journal of Biological Physics Research 10 (2005)
130. S. Denifl, P. Candori, S. Ptasińska, P. Limão-Vieira, V. Grill, T. D. Märk, P. Scheier* - *Positive and negative ion formation via slow electron collisions with 5-bromouridine*. European Physical Journal D 35 (2005) 391-398
131. S. Denifl, S. Ptasińska, B. Sonnweber, P. Scheier, D. Liu, F. Hagelberg, J. Mack, L. T. Scott, T. D. Märk - *Free-electron attachment to coronene and corannulene in the gas phase*. Journal of Chemical Physics 123 (2005) 104308(1-8)
132. S. Ptasińska, S. Denifl, B. Mróz, M. Probst, V. Grill, E. Illenberger, P. Scheier, T. D. Märk - *Bond selective dissociative electron attachment to thymine*. Journal of Chemical Physics 123 (2005) 124302(1-8)
133. S. Ptasińska, S. Denifl, P. Scheier, T. D. Märk, E. Illenberger - *Bond and site selective loss of H atom from nucleobases by very low-energy electrons (< 3 eV)*. Angewandte Chemie International Edition 44 (2005) 6941-6943, also published in Angewandte Chemie (in German) *Bindungs- und ortsselektive Abspaltung von H-Atomen aus Nucleobasen, induziert durch Elektronen sehr niedriger Energie (<3 eV)*. Angew. Chem. 117 (2005) 7101-7103
134. S. Denifl, S. Matejcik, S. Ptasińska, B. Gstir, M. Probst, P. Scheier, E. Illenberger, T. D. Märk - *Electron attachment to chlorouracil: a comparison between 6-CIU and 5-CIU*. Journal of Chemical Physics 120 (2004) 704-709
135. S. Denifl, S. Ptasińska, P. Scheier, T. D. Märk - *Electron impact ionization of 5- and 6-chlorouracil: appearance energies*. International Journal of Mass Spectrometry 232 (2004) 99-105
136. S. Denifl, S. Ptasińska, G. Hanel, B. Gstir, M. Probst, P. Scheier, T. D. Märk - *Electron attachment to gas-phase uracil*. Journal of Chemical Physics 120 (2004) 6557-6565
137. S. Ptasińska, S. Denifl, P. Scheier, T. D. Märk - *Inelastic electron interaction (attachment/ionization) with deoxyribose*. Journal of Chemical Physics 120 (2004) 8505-8511, also selected to Virtual Journal of Biological Physics Research 7 (9) 2004
138. S. Denifl, S. Ptasińska, G. Hanel, B. Gstir, P. Scheier, M. Probst, B. Farizon, M. Farizon, S. Matejcik, E. Illenberger, T. D. Märk - *Electron attachment to uracil, thymine and cytosine*, Physica Scripta T 110 (2004) 252-255

139. S. Denifl, S. Ptasińska, M. Probst, J. Hrusak, P. Scheier, T.D. Märk - *Electron attachment to the gas phase DNA bases cytosine and thymine*. Journal of Physical Chemistry A 108 (2004) 6562-6569
140. S. Denifl, S. Ptasińska, M. Cingel, S. Matejčík, P. Scheier, T.D. Märk - *Electron attachment to the DNA bases thymine and cytosine*. Chemical Physics Letters 377 (2003) 74-80
141. S. Ptasińska, S. Denifl, A. Abedi, P. Scheier, T.D. Märk - *Dissociative electron attachment to gas-phase glycine*. Analytical and Bioanalytical Chemistry 377 (2003) 1115-1119
142. S. Ptasińska, J. Dąbek, L. Michalak – *Formation of water dimers in expanding air flows*. Vacuum 70 (2003) 403-409
143. S. Ptasińska, A. Bajuk, L. Michalak – *Influence of potassium chloride on the MALDI detection process*. Vacuum 70 (2003) 439-445
144. S. Ptasińska, L. Michalak, M. Smolira – *Some aspects of the stability of ion current in a matrix-assisted laser desorption/ionisation source*. Rapid Communications in Mass Spectrometry 17 (2003) 917-923

Non-refereed:

Editorials:

145. S. Ptasińska, *Atmospheric Pressure Plasmas in Material Science*. Materials 14 (2021) 1963
146. S. Ptasińska, M.A. Śmiałek, A.R. Milosavljević, B. Sivaraman - *Low-energy interactions related to atmospheric and extreme conditions*. European Physical Journal D 71 (2017) 264

Other:

147. J. Dąbek, S. Ptasińska, L. Michalak- *The effect of carrier gas on formation of ammonia clusters*. Section AAA Physica vol. LVII (2002) 6
148. S. Ptasińska – *Spektrometria masowa klastrów gazowych*. VI National Vacuum Conference, Korbielów, Polska 2002, Prace Naukowe Politechniki Warszawskiej, Elektronika, 143 (2002) p. 65 (in Polish)
149. P. Scheier, S. Ptasińska, S. Denifl, P. Candori, M. Probst and T.D. Märk - *Inelastic interaction of low energy electrons with biologically relevant molecules*. 22nd Summer School and International Symposium on the Physics of Ionized Gases 2004: 2, L. Hadzievski (ed.), Vinca Inst. of Nuclear Sci, Belgrade, Serbia.
150. Y. Soo Park, H. Ah Noh, H. Cho, A. Dumont, S. Ptasińska, A.D. Bass, L. Sanche – *DNA damage by X-ray and low energy electron beam irradiation*. Journal of Radiation Protection, 33 (2008) 53 (in Korean)

BOOK CHAPTERS

1. S. Denifl, F. Zappa, A. Mauracher, I. Mähr, S. Ptasińska, M. Probst, E. Illenberger, T.D. Märk and P. Scheier - *Free Electron Attachment to Biomolecules: from Gas Phase to Clusters and Droplets*. COST P9 book
2. E. Alizadeh, S. Ptasińska, L. Sanche – *Transient Anions in Radiobiology and Radiotherapy: From Gaseous Biomolecules to Condensed Organic and Biomolecular Solids*. Radiation Effects in Materials (2016) InTech

GRANTS, SCHOLARSHIPS, AND FELLOWSHIPS (while at ND)

2010-2024	US Department of Energy, (DE-FC02-04ER15533) Radiation Chemistry and Photochemistry in the Condensed Phase and at Interfaces (principal investigator (PI), lead PI: I. Carmichael)
2019	Plasma Science and Engineering at ND and PUC: A Workshop to Launch Interdisciplinary Collaborations with Pontificia Universidad Católica de Chile (PUC), Santiago, Chile (PI: David Go, Co-PI)
2017	Luksburg Foundation Collaboration Grants, Efficacy of copper-based oxide materials involved in energy-related processes” with Pontificia Universidad Católica de Chile (PUC), Santiago, Chile, PI, Co-PI: Alejandro Cabrera
2017	Greater China Collaboration Grants “Next-generation materials for exhaust gas pollutant control” with University of Hong Kong, (PI: Khachatur Manukyan, Co-PI)
2017	International project at the SOLEIL synchrotron: “Electronic structure of isolated organolead halide perovskite nanoparticles probed by gas-phase XPS”. (Lead PI, facility user)
2015-2017	Molecular Foundry proposal “Investigations on surface chemistry of III-V semiconductors using Near Ambient Pressure X-ray Photoelectron Spectroscopy” in collaboration with LLNL Quantum Simulation Group (Lead PI, facility user)
2016	International project at the SOLEIL synchrotron: “VUV photoelectron-photoion spectroscopy of organolead halide perovskite nanoparticles isolated in vacuo” (lead PI, facility user)
2017	ND Equipment Restoration and Renewal Program (co-PI, PI: P. Clark)
2014-2015	ND Faculty Research Scholarship Program (FRSP) Initiation Grant (PI) ND Edison Innovation Award for post-doctoral fellowship (PI)
2013-2014	ORAU travel grant, Oak Ridge Associated Universities (07/01/2012-06/30/2013)
2012-2013	National Science Foundation, Acquisition of an X-ray Photoelectron Spectroscopy (Senior personnel)

TALKS (CONFERENCES, SEMINARS, AND COLLOQUIA)

1. “Spektrometria mas klasterow gazowych” VI Natioional Vacuum Conference, Contributed
Korbielów, Polska 2002
2. “Mass spectrometry of gaseous clusters” Technical University of Gdansk, Poland, Seminar
June 2002
3. “MALDI method for biomolecules” Technical University of Gdansk, Poland, Seminar
June 2002
4. “Dissociative electron attachment to glycine by low energy electron impact” EPIC Contributed
Network Meeting, Pruhonice near Prague, Czech Republic 2003
5. “Electron attachment to biological relevant molecules” 53.ÖPG-Jahrestagung, Contributed
Salzburg, Austria 2003
6. “Radiation damage of biomolecules” Schwerpunktseminar Ionen- Plasmaphysik, Contributed
Leopold-Franzens-University, Innsbruck, Austria 2004
7. “Site- selective electron attachment to the partially deuterated thymine” EPIC Contributed
Network Meeting, Obergurgl, Austria 2004
8. “Low energy electron interactions with porphine derivates” RADAM Conference Invited
2005, Potsdam, Germany 2005
9. “Free electron attachment to higher order and endohedral fullerenes” EPIC Invited
2005/EIPAM, 25-30 June 2005, San Martino al Cimino, Viterbo, Italy
10. “Bond- and site-selective dissociative electron attachment to pyrimidine bases.” Seminar
Atomic, Molecular and Optical Physics Seminars, University of Aarhus, Denmark, September 2005

11. "Explosives detection by low energy electrons" LEEMI IV, 6-9 October 2005, Smolenice, Slovakia Invited
12. "Electron irradiation of biocomplexes" ESF-FWF Conference in Partnership with LFUI on Biomolecules: From Gas Phase Properties to Reactions relevant in Living Cells, Obergurgl, Austria, 24-29 June 2006 Contributed
13. "Electron stimulated ion desorption from dry and hydrated single strand DNA" 15th International Symposium on Electron Molecule Collisions and Swarms & XIV International Workshop on Low Energy Positron and Positronium Physics University of Reading, UK, 1st - 4th August 2007 Invited
14. "Dissociative electron attachment to the DNA-water complex" COST UK meeting, St. Catherine's College, Oxford, United Kingdom, 10-12 September 2007 Invited
15. "Electron stimulated anion desorption from dry and hydrated single strand of DNA" Institut für Physikalische und Theoretische Chemie, Freie Universität Berlin, Germany, 12 October 2007 Seminar
16. "X-ray radiation induced damage in DNA monitored by XPS" XVI Symposium on Atomic, Cluster and Surface Physics (SASP) 20-25 January 2008, Les Diablerets, Switzerland Invited
17. "Alteration of DNA-base molecules induced by low energy electrons: XPS study" Electron Induced Processes at Molecular Level and Low-Energy Electron Molecule Interaction. (LEEMI-EIPAM-ECCL) Roscoff, France, 7th - 11th, May 2008 Contributed
18. "Low Energy Electron Induced Damage to DNA and its Components - XPS study" National Conference on Electronic, Atomic, Molecular and Photonic Physics (CEAMPP), 15-18 May, 2008, Zaječar, Serbia Invited
19. "Processes induced by Low Energy Electron-DNA Interactions" Gordon Conference: Radiation Chemistry, Radiation Driven Processes In Physics, Chemistry And Biology, July 6-11, 2008, Waterville Valley, NH Contributed
20. "Low Energy Electrons Induced Chemistry in dry DNA," 8th International Conference on Pulse Investigations in Chemistry, Biology and Physics PULS 2008, 6-12 September 2008, Krakow, Poland & Free Radicals in Chemical Biology, Joint Working Groups Meeting CM0603 Contributed
21. "Dissociative Electron attachment to gas-phase 5 nitrouracil" Control of Molecular Processes Induced by Electrons and Photons: Experiments and Interpretations, A congress in Honor of Prof. Hotop, CMP 2008, 2-4 October 2008, Rome, Italy Invited
22. Meeting of Working Group 01, Selective bond cleavage by electron induced dissociation, COST Action CM0601: Electron Controlled Chemical Lithography (ECCL), 01 May 2009, Harnack-Haus Berlin, Germany 2009 Contributed
23. "Chemical processes of electrons with biomolecules inside helium droplets." Meeting of Working Group 2, ESF COST Action CM0805, The Chemical Cosmos, 15-17 June 2009 at University College London. United Kingdom 2009 Contributed
24. "Fundamental low energy electron-biomolecule interactions and their applications" Radiation Research in 21st Century, A Visionary Meeting, University of Notre Dame, Indiana, USA, July 12th – 15th, 2009 Invited
25. "DNA damage induced by non-thermal atmospheric pressure plasma jet" XVIIth Symposium on Atomic, Cluster and Surface Physics 2010 (SASP 2010), Obergurgl, Austria, January 24-29, 2010 Contributed
26. "Non-thermal atmospheric pressure plasma treatment of DNA molecules" Collisions with Molecules and Clusters Co-organized by the Molecular Physics Contributed

Group and the Atomic and Molecular Interactions Group, Milton Keynes, UK, April 15-16, 2010

27. "The influence of amino acids on the fragmentation of oligonucleotides exposed to low energy electrons" Radiation Research Society, Annual Meeting, Maui, USA, September 25-29, 2010 Colloquium
28. "Controlling Bond Cleavage in DNA Analogues by Low Energy Electrons and Cold Plasmas", Faculty of Mathematics, Computer Science and Physics, University of Innsbruck, Austria, May 24, 2011 Invited
29. "DNA damage induced by fast-flowing metastable species in a cold plasma" 14th International Congress of Radiation Research, Warsaw, Poland, August 28-September 1, 2011 Invited
30. "The action of amino acids on electron irradiated DNA films" 14th International Congress of Radiation Research, Warsaw, Poland, August 28-September 1, 2011 Contributed
31. "Atmospheric Pressure Studies in Notre Dame Radiation Laboratory" Florida Institute of Technology, Melbourne, FL, USA, March 15, 2012 Seminar
32. "Low energy electron interactions with biomolecules" 12th International Workshop on Radiation Damage to DNA, Prague, Czech Republic, June 2-6, 2012 Invited
33. "Dissociative electron attachment to triflates" 65th Annual Gaseous Electronics Conference, Austin, TX, USA, October 22 -26, 2012. Contributed
34. "Cold plasma interactions with biological systems" 2nd Nanoscale Insights into Ion Beam Cancer Therapy (Nano-IBCT), Sopot, Poland, May 20-24, 2013 Invited
35. "Surface characterization of polypeptide bilayers" 35th Annual Symposium on Applied Surface Analysis, Urbana-Champaign, IL, June 5-7, 2013 Contributed
36. "Treatment of Biosystems by Atmospheric Pressure Plasma Jet" 19th International Vacuum Congress (IVC), Paris, France, September 9-13, 2013 Contributed
37. "Physical-chemical characterization of nitrogen atmospheric pressure plasma jets" 66th Gaseous Electronic Conference (GEC), Princeton, NJ, September 30-October 4, 2013 Contributed
38. "In-situ NAP XPS studies of dissociative water adsorption on GaAs(100) surfaces" American Physics Society (APS March meeting), Denver, CO, March 3-7, 2014 Contributed
39. "Controlling Bond Cleavage in Gas-Phase Biomolecules" 23rd International Conference on Application of Accelerators in Research and Industry (CAARI), San Antonio, TX, May 25-30, 2014 Invited
40. "Near Ambient Pressure X-ray Photoelectron Spectroscopy of water interaction with semiconductors" 36th Annual Symposium on Applied Surface Analysis, Albuquerque, NM, June 2-5, 2014 Contributed
41. "Near Ambient Pressure X-ray Photoelectron Spectroscopy of water interaction with semiconductors" Collaborative Conference on 3D & Materials Research (3DMR), Incheon, South Korea, June 23-27, 2014 Invited
42. "Selective Bond Dissociation in Gas-Phase Molecules Induced by Low Energy Electrons" Gordon Conference: Radiation Chemistry, Radiation Driven Processes In Physics, Chemistry, Biology and Industry, Andover, NH, July 13-18, 2014 Invited
43. "Atmospheric Pressure Plasma Jet interactions with liquids" 27th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2014), Belgrade, Serbia, August 26-29, 2014 Invited
44. "Interfacial chemistry of water interaction with GaAs (100)" Dynamics, Interactions and Electronic Transitions at Surfaces (DIET 14), Pacific Grove, CA, October 13-17, 2014 Contributed

45. "Interfacial Chemistry between Gas-Phase Molecules and GaAs Surfaces Probed by Near-Ambient Pressure X-ray Photoelectron Spectroscopy" 10th Condensed Phase and Interfacial Molecular Science (CPIMS) Program, Potomac, Maryland, October 19-22, 2014 Invited
46. "Tailoring Bond Cleavage in Gas-Phase Biomolecules by Low Energy Electrons" 67th Gaseous Electronic Conference (GEC), Raleigh, NC, November 2-7, 2014 Invited
47. "Morphology Dependence of Gas-Phase Molecule Interactions with GaAs Surfaces" American Vacuum Conference, 61st International Symposium & Exhibition, Baltimore, MD, November 9-14, 2014 Contributed
48. "Interfacial chemistry of water and Ga-based semiconductor surfaces" International workshop on "Surface chemistry and near-ambient pressure photoemission; new tools and new paradigms" SOLEIL, France, December 10-12, 2014 Contributed
49. "Interfacial Processes between Gas-Phase Molecules and Ga-based Surfaces Probed by Near-Ambient Pressure X-ray Photoelectron Spectroscopy" Department of Physics at the Indiana University-Purdue University Indianapolis, 12 February 2015 Colloquium
50. "Dynamic Oxidation of Gallium Phosphide Surface Tracked by Near Ambient Pressure XPS" American Physics Society (APS March meeting), San Antonio, TX, 2-6 March 2015 Contributed
51. "Tailoring Bond Dissociation in Gas-Phase Biomolecules by Low-Energy Electrons" Department of Physics, the Oakland University, Rochester, MI, 12 March 2015 Colloquium
52. "Dissociative electron attachment to isotopic and isomeric gas-phase molecules" 29th Miller Conference on Radiation Chemistry in Windermere, the English Lake District, the UK, 14-19 March, 2015 Invited
53. "Atmospheric Pressure Plasma induced damage to isolated and cellular DNA" Department of Nuclear Medicine and Radiobiology at the University of Sherbrooke, Canada Seminar
54. "Evaluation of low energy electron-induced fragmentation of peptide model molecules" XIX International Symposium on Electron-Molecule Collisions and Swarms in Lisbon, Portugal, 17-20 July 2015 Invited
55. "Electron impact dissociation of gas-phase heterocyclic compounds", XXIX International Conference on Photonic, Electronic, and Atomic Collisions (ICPEAC) Toledo, Spain, 22-28 July 2015 Invited
56. "Development of DEA instrumentation for a comprehensive understanding of molecular fragmentation in the gas phase" International Workshop on Dissociative Electron Attachment, Mumbai, India, November 18-20, 2015 Seminar
57. "Interfacial Processes at Water/Semiconductor Surfaces under Operando Conditions" Gordon Research Conference: Electron Donor-Acceptor Interactions Newport, RI, August 7-12, 2016 Invited
58. "Stepwise Electron Spectroscopy for Neutral Fragment Detection" 24th International Conference on Application of Accelerators in Research and Industry (CAARI), Fort Worth, TX, October 30- November 4, 2016 Invited
59. "Charge transfer processes at water/semiconductor interfaces" 10th Condensed Phase and Interfacial Molecular Science (CPIMS) Program, Gaithersburg, MD, November 1-4, 2016 Invited
60. "Plasma: From Lightning to Medical Applications" as part of the Our Universe Revealed: Physics for Everyone lecture series, Notre Dame, IN, September 27, 2016 Public talk

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| 61. "Probing Interfacial Processes at H ₂ O/III-V Semiconductor Surfaces under operando conditions" CORE-CM Seminar, Michigan State University, East Lansing, MI, February 23, 2017 | Seminar |
| 62. "Interfacial Processes at H ₂ O/III-V Semiconductor Surfaces under Operando Conditions" Institute of Physics at the Pontificia Universidad Católica de Chile in Santiago, Chile May 23, 2017 | Seminar |
| 63. "Direct Observation of Neutral Radicals from a Dissociative Electron Attachment Process" Telluride Science Research Center workshop on Advances in Theory of Electronic Resonances, Telluride, CO, July 17-21, 2017 | Invited |
| 64. "Development of DEA instrumentation for a comprehensive understanding of molecular fragmentation in the gas phase" the Open University, Milton Keynes, UK. September 1, 2017 | Seminar |
| 65. "Instrumentation for neutral radical detection from gas-phase molecular dissociative electron attachment" the 4th CELINA (Chemistry for Electron-Induced Nanofabrication - COST Action CM1301) conference, Porto, Portugal, September 13-16, 2017 | Invited |
| 66. "Interfacial Processes at H ₂ O/III-V Semiconductor Surfaces", Institute of Materials for Electronics and Magnetism (IMEM - CNR) in Parma, Italy, October 3, 2017 | Seminar |
| 67. "Towards comprehensive picture of a dissociative electron attachment process" the 50th anniversary of the Institut für Ionenphysik und Angewandte Physik, Universität Innsbruck, Austria. October 6, 2017 | Public talk |
| 68. "Spatial Distribution of Biological Effects Induced by Plasma Reactive Species" 64th American Vacuum Society International Symposium and Exhibition, Tampa, FL, October 29-November 3, 2017 | Invited |
| 69. "Development of DEA instrumentation for a comprehensive understanding of gas-phase molecular fragmentation" 70th Annual Gaseous Electronics Conference (GEC 2017), Pittsburgh, PA, November 6-10, 2017 | Contributed |
| 70. "Dissociative electron attachment to ring-containing compounds" 3rd International Conference on Dissociative Electron Attachment (the 3rd meeting of the DEA club) Prague, Czech Republic, April 10 - 13, 2018. | Invited |
| 71. "Probing Interfacial Processes on Semiconductors Using Lab-Based Ambient Pressure XPS" Solar Photochemistry Research Principal Investigator Meeting, Gaithersburg, MD, June 4-7, 2018 | Invited |
| 72. "Plasma Radiation-Induced Processes in Biomolecular Systems" Department of Nuclear Medicine and Radiobiology, University of Sherbrooke, Canada, July 10 2018 | Seminar |
| 73. "Plasma Radiation-induced Chemistry in Molecular Systems" 64th Annual Meeting of the Radiation Research Society, Chicago, IL, 23-26 September, 2018 | Invited |
| 74. "Effects of plasma reactive species on biomolecular systems" 5th International Conference "Dynamics of Systems on the Nanoscale" (DySoN 2018), Potsdam, Germany, 8 -12 October, 2018 | Invited |
| 75. "Dissociative Electron Attachment to Gas-Phase Molecules" 71st Annual Gaseous Electronics Conference (GEC 2018), Portland, OR, November 5-9, 2018 | Invited |
| 76. "Dissociative electron attachment to biomolecules" 50th Annual Meeting of the American Physics Society Division of Atomic, Molecular and Optical Physics (DAMOP), Milwaukee, WI, May 27-31, 2019 | Invited |
| 77. "Oxidation mechanisms onto semiconductor surfaces" European Materials Research Society, Fall Meeting, Warsaw, Poland, September 16-19, 2019 | Contributed |

78. "Plasma Reactive Species Formation in Liquids" American Vacuum Society (AVS) 66th International Symposium & Exhibition, Columbus, OH, October 20-25, 2019 Invited
79. "Dissociative electron attachment to ring-containing compounds" 72nd Annual Gaseous Electronics Conference (GEC 2019), College Station, TX, October 28 – November 1, 2019 Contributed
80. "Fundamental mechanisms of oxide evolution on semiconductor surfaces" 15th DOE Condensed Phase and Interfacial Molecular Science (CPIMS) Principal Investigators Meeting, Gaithersburg, MD, November 4-6, 2019 Invited
81. "Toward a realistic description of oxidation at the semiconductor/liquid interfaces" U.S. Department of Energy-Basic Energy Science Solar Photochemistry Principle Investigators' Meeting, June 2-4, 2021 (virtual) Lightning talk
82. "Electron-induced bond dissociation in amides" Telluride Science Research Center workshop on Advances in Theory of Electronic Resonances, Telluride, CO, July 13-17, 2021 (virtual) Invited
83. "Chemistry versus energetic of non-thermal plasma irradiation" 63rd Scientific Congress of the Polish Chemical Society, Lodz, Poland, September 13-16, 2021 (virtual) Invited
84. "Importance of Neutral Detection in Electron Scattering Processes" Workshop of 74th Annual Gaseous Electronics Conference (GEC 2021), Huntsville, AL, October 4-8, 2021 (virtual) Invited
85. "Importance of Radiation Chemistry to Low-Temperature Plasmas" Miller Online Workshop on Radiation Chemistry, February 12, 2022 (virtual) Invited
86. "Dissociative Electron Attachment to Gas-Phase Biomolecules" Gaseous Electronics Meeting (GEM) 2022 hybrid conference, University of Sydney, Australia, February 14-16, 2022 (virtual) Invited
87. "Foundations of non-thermal plasmas for biochemical applications" Department of Chemical Physics, University of Adam Mickiewicz, Poznan, Poland, May 10, 2022 Seminar
88. "Low energy electrons-induced damage to biomolecules" Wielkopolska Center of Advanced Technologies, University of Adam Mickiewicz, Poznan, Poland, May 12, 2022 Seminar
89. "Re-Evaluating Routes of Oxidation of III-V Semiconductor Surfaces" U.S. Department of Energy-Basic Energy Science Solar Photochemistry Principle Investigators' Meeting, June 8-10, 2022 (virtual) Lightning talk
90. "Photoelectron Spectroscopy of Interfacial Oxides" at the Forty-Fourth U.S. Department of Energy Solar Photochemistry Principal Investigators' Meeting in Rockville, MD, May 22-24, 2023 Lightning talk
91. "Dissociation and dynamics of electron attachment to specific intramolecular structures" 54th Annual Meeting of the American Physics Society Division of Atomic, Molecular and Optical Physics in Spokane, Washington, USA, June 5-9, 2023 Invited
92. "DNA damage as a probe of low-temperature plasma properties and efficacy" Canadian Association of Physicists Congress held by the University of New Brunswick, Fredericton, Canada, June 18-23, 2023 Invited
93. "Electrons rule the world - from quantum physics to industrial and medical applications" Department of Physics, University of North Texas, Denton, TX, October 17, 2023 Colloquium
94. "DNA damage as a probe of low-temperature plasma dose rate and chemistry" 17th Biennial Trombay Symposium on Radiation & Photochemistry. (TSRP-2024), Anushaktinagar, Mumbai, INDIA, January 7-11, 2024 Invited

95. "Dissociation electron attachment to molecules - a research overview at Notre Dame" International Workshop: Insights into Collisional Processes with Atoms, Molecules, and Clusters and Related Topics in honor of Ilya Fabrikant's 75th birthday, Department of Physics & Astronomy, University of Nebraska-Lincoln, February 17th, 2024 (virtual) Invited

CONFERENCE CONTRIBUTIONS (POSTERS, STUDENT'S TALK)

1. S. Ptasinska, J. Dąbek, L. Michalak - *Some aspects of formation of ammonia microclusters*. IV International Symposium Ion Implantation and other Application of ions and electrons, Kazimierz Dolny, Poland, June 10-13, 2002
2. S. Ptasinska, J. Dąbek, L. Michalak - *Formation of water dimers in expanding air flows*. IV International Symposium Ion Implantation and other Application of ions and electrons, Kazimierz Dolny, Poland, June 10-13, 2002
3. S. Ptasinska, A. Bajuk, L. Michalak - *Influence of potassium chloride on the MALDI detection process*. IV International Symposium Ion Implantation and other Application of ions and electrons, Kazimierz Dolny, Poland, June 10-13 2002
4. J. Dąbek, S. Ptasinska, L. Michalak - *Wytwarzanie mikroklastrow (NH_3) $_n$ i (CO_2) $_n$ w mieszaninach dwuskładnikowych*" Materiały VI Krajowej Konferencji Techniki Próżni, Korbielów, 23-25 września 2002, s. 47.
5. S. Denifl, S. Matejczik, S. Ptasinska, G. Hanel, B. Gstir, A. Stamatovic, P. Scheier, T.D. Märk - *Electron attachment and electron impact ionization of biomolecules*. Deutsche Gesellschaft für Massenspektrometrie-meeting (DGMS 2003), Munich, Germany, 07-10. March 2003
6. S. Denifl, G. Hanel, B. Gstir, S. Ptasinska, P. Scheier, M. Probst, B. Farizon, M. Farizon, S. Matejczik, E. Illenberg, T.D. Märk - *Site selective electron attachment to RNA and DNA bases*. XXIII International Conference on Photonic, Electronic, and Atomic Collisions (XXIII ICPEAC), Stockholm, Sweden, 23 - 29 July, 2003
7. E.T.M. Selim, L. Michalak, S. Ptasinska - *Study of manganese chloride and its reactivity in the negative ion mode using laser desorption/ionization (LDI) TOF - mass spectrometer*. 16th International Mass Spectrometry Conference (IMSC-16), Edinburgh, 31 August - 5 September, 2003
8. S. Ptasinska, S. Denifl, A. Abedi, P. Scheier, T.D. Märk - *Dissociative electron attachment to glycine by low energy electron impact*. 13th International Symposium on Electron-Molecule Collisions and Swarms July (EMS 2003 Prague), Pruhonice near Prague, Czech Republic, 30 July - 2 August, 2003
9. S. Denifl, G. Hanel, S. Ptasinska, B. Gstir, S. Matejczik, A. Stamatovic, P. Scheier, T.D. Märk - *Electron impact and attachment studies of biomolecules*. 13th International Symposium on Electron-Molecule Collisions and Swarms (EMS 2003 Prague), Pruhonice near Prague, Czech Republic, 30 July - 2 August 2003
10. S. Ptasinska, S. Denifl, A. Abedi, P. Scheier, T.D. Märk - *Electron attachment to biologically relevant molecules*. 53. ÖPG-Jahrestagung, Salzburg, Austria, 1-2 October, 2003
11. S. Denifl, S. Ptasinska, G. Hanel, M. Probst, P. Scheier, T.D. Märk - *Radiation damage in molecules of biological relevance*. Austrian- Hungarian workshop on charged-particle transport through nanostructures and solids; Debrecen, Hungary, 14-16 November, 2003
12. S. Ptasinska, S. Denifl, P. Candori, P. Limão-Vieira, P. Scheier and T.D. Märk - *Inelastic electron interaction (attachment/ionization) with sugar molecules and amino acids V* -th International Conference Ion Implantation and Other Applications of Ions and Electrons, Kazimierz Dolny, Poland, June 14-17, 2004 (ION 2004)
13. S. Ptasinska, P. Candori, S. Denifl, S. Yoon, P. Scheier and T.D. Märk - *Electron interactions with nucleosides of DNA and RNA: thymidine and uridine*. RADAM Conference „Radiation Damage in Biomolecular System“, Lyon, France, 24-27 June, 2004

14. P. Scheier, S. Ptasińska, S. Denifl, P. Candori, M. Probst and T.D. Märk – *Inelastic interaction of low energy electrons with biologically relevant molecules*. RADAM Conference „Radiation Damage in Biomolecular System“, Lyon, France, 24-27 June, 2004
15. P. Scheier, S. Denifl, S. Ptasińska, M. Probst, S. Yoon and T.D. Märk - *Dissociative electron attachment to biologically relevant molecule*. 8th European Conference on Atomic and Molecular Physics, Rennes, France, 6-10 July 2004 (ECAMP8)
16. S. Ptasińska, S.P. Denifl, P. Limão-Vieira, P. Scheier and T.D. Märk - *Damage of DNA sugar and its moiety by electron impact*. 8th European Conference on Atomic and Molecular Physics, Rennes, France, 6-10 July, 2004 (ECAMP8)
17. P. Scheier, S. Ptasińska, S. Denifl, P. Candori, M. Probst and T.D. Märk – *Inelastic interaction of low energy electrons with biologically relevant molecules*. International Symposium on the Physics of Ionized Gases, SPIG, National Park Tara, Serbia and Montenegro, 23-27 August, 2004
18. S. Ptasińska, S. Denifl, M. Probst, P. Scheier and T.D. Märk- *Interaction of low energy electrons (attachment/ionization) with molecules of biological relevance*. 332th Wilhelm and Else Heraeus Seminar Processes Driven by Low Energy Electron-Molecule Interactions, LEEMI Bad Honnef, Germany, 1-4 September, 2004
19. S. Ptasińska, P. Candori, S. Denifl, S. Yoon, P. Scheier and T. D. Märk – *Radiation damage of nucleosides by low energy electrons*. 332th Wilhelm and Else Heraeus Seminar Processes Driven by Low Energy Electron-Molecule Interactions, LEEMI Bad Honnef, Germany, 1-4 September, 2004
20. S. Denifl, S. Ptasińska, M. Stano, F. Martinez, P. Scheier and T.D. Märk - *High resolution electron ionization study of helium-clusters*. 332th Wilhelm and Else Heraeus Seminar Processes Driven by Low Energy Electron-Molecule Interactions, LEEMI Bad Honnef, Germany, 1-4 September, 2004
21. S. Denifl, S. Ptasińska, M. Probst, P. Scheier and T.D. Märk- *Low energy electron interaction with biomolecules*. International Conference on Dynamics of Molecular System, MOLEC XV, Nunspeet, the Netherlands, 5-10 September, 2004
22. S. Ptasińska, S. Denifl, P. Candori, P. Limao-Vieira, P. Scheier, T.D. Märk- *Damage of sugar molecules by electron impact*. 1st Annual CMBI Meeting, Vill, Tyrol, 1-2 October, 2004
23. S. Denifl, S. Ptasińska, P. Candori, S. Yoon, P. Scheier, T.D. Märk- *Electron interactions with nucleosides: thymidine and uridine* 1st Annual CMBI Meeting, Vill, Tyrol, 1-2 October, 2004
24. L. Zajickova, S. Ptasińska, M. Cingel, S. Matejcik - *Study of electron impact ionization and electron attachment to HMDSO* – The 15th Symposium on Applications of Plasma Processes (SAPP XV) and Third EU-Japan Joint Symposium on Plasma Processing, Podbanske, Slovakia, 15-20 January, 2005
25. P. Scheier, S. Ptasińska, S. Denifl, P. Candori, W. Schustereder, V.G. Hasan, P. Cicman, S. Feil, B. Coupier, J. Fedor, S. Matejcik, E. Illenberger, T.D. Märk - *Dissociative Electron Attachment to Biologically Relevant Molecules* - The 15th Symposium on Applications of Plasma Processes (SAPP XV) and Third EU-Japan Joint Symposium on Plasma Processing, Podbanske, Slovakia, 15-20 January, 2005
26. K. Gluch, S. Matt-Leubner, S. Feil, O. Echt, S. Denifl, S. Ptasińska, B. Concina, P. Scheier, and T.D. Märk - *High Resolution Measurements of Fullerenes and Endohedrals*. Symposium on Size Selected Clusters 2005, Brand, Austria, 28 February–3 March, 2005
27. S. Denifl, S. Ptasińska, F. Martinez, K. Gluch, S. Feil, P. Scheier, T. D. Märk – *High resolution electron ionization study of helium-clusters*. Symposium on Size Selected Clusters 2005, Brand, Austria, 28 February–3 March, 2005
28. M. Probst, B. Mroz, S. Denifl, S. Ptasińska, G. Hanel, B. Gstir, P. Scheier, B. Farizon, M. Farizon, S. Matejcik, E. Illenberger, T. D. Märk, - *Bond dissociation energies of Nucleic acids*. 7th Congress of the World Association of Theoretically Oriented Chemists, 16–21 January 2005, Cape Town, South Africa WATOC 2005

29. S. Ptasińska, S. Denifl, E. Illenberger, T.D. Märk and P. Scheier - *The use of isotope and site labeling for the identification of DEA peaks in biomolecule*. RADAM Conference 2005, Potsdam, Germany, 17-20 March, 2005
30. P. Scheier, S. Ptasińska, S. Denifl, J. Fedor, S. Feil, B. Coupier, M. Winkler, M. Probst and T.D. Märk - *Low energy electron interactions with biologically relevant molecules*. Electron Induced Processing at the Molecular Level (EIPAM 1), 19-20 April 2005, Milton Keynes, UK
31. S. Ptasińska, S. Denifl, B. Mróz, A. Wisthaler, V. Grill, M. Probst, E. Illenberger, T. D. Märk and P. Scheier – *Site selective hydrogen abstraction from thymine*. International Conference of Photonic, Electronic and Atomic Collisions (XXIV ICPEAC), July 20 – 26 , 2005, Rosario, Argentina
32. S. Ptasińska, S. Denifl, V. Grill, E. Illenberger, P. Scheier and T. D. Märk- *Radiation damage in biomolecular systems by low energy electrons*. European Young Investigator Conference (EYIC), June 7-12, 2005, Gniezno, Poland
33. P. Sulzer, M. Stano, S. Feil, M. Winkler, S. Ptasińska, V. Grill, F. Zappa, T. D. Märk and P. Scheier. *Inelastic interaction of free electrons with gas phase porphyrin*. EPIC 2005/EIPAM, 25-30 June 2005, San Martino al Cimino, Viterbo, Italy
34. S. Ptasińska, S. Denifl, M. Stano, P. Sulzer, F. Zappa, A. Stamatovic, O. Echt, P. Scheier and T. D. Märk - *Free electron attachment to higher order and endohedral fullerenes*. EPIC 2005/EIPAM, 25-30 June 2005, San Martino al Cimino, Viterbo, Italy
35. F. Zappa, P. Sulzer, B. Mielewska, A. Milosavljevic, S. Ptasińska, S. Denifl, P. Scheier and T.D. Märk - *Inelastic electron interaction with sugar molecules*. EPIC 2005/EIPAM, 25-30 June 2005, San Martino al Cimino, Viterbo, Italy
36. P. Sulzer, M. Stano, S. Feil, M. Winkler, S. Ptasińska, V. Grill, F. Zappa, B. Kräutler, T. D. Märk and P. Scheier - *Wechselwirkung von freien Elektronen mit Porphyrinen – 55.ÖPG-Jahrestagung*, Vienna, Austria, September, 2005
37. M. Winkler, F. Rondino, S. Feil, F. Zappa, S. Denifl, T. Schlhöfner, S. Ptasińska, A. Stamatovic, V. Grill, T.D. Märk and P. Scheier- *Ultrakalte Uracilcluster*, 55.ÖPG-Jahrestagung, Vienna, Austria, September, 2005
38. M. Beikircher, S. Ptasińska, S. Feil, M. Winkler, A. Bacher, W. Schustereder, O. Echt, T.D.Märk and P. Scheier - *Unimolekularer Zerfall von Uracil und Thymin*, 55.ÖPG-Jahrestagung, Vienna, Austria, September, 2005
39. S. Ptasińska, S. Denifl, B. Mroz, M. Probst, E. Illenberger, T.D. Märk and P. Scheier - *The use of isotope and site labeling for the identification of DEA peaks in biomolecule*. International Symposium on Electron-Molecule Collisions and Swarms, 27-30 July 2005 Campinas, SP, Brazil 2005
40. V. Grill, S. Denifl, S. Ptasińska, B. Mróz, M. Probst, T.D. Märk, P. Scheier - *Isotope and site labeling for the identification of DEA peaks in biomolecules*. 2nd Annual CMBI Meeting, Vill, Tyrol, 30 September-1 October, 2005
41. M. Beikircher, S. Ptasińska, S. Feil, M. Winkler, A. Bacher, W. Schustereder, O.Echt, T.D. Märk, P. Scheier – *Stability of uracil and thymine cations*. 2nd Annual CMBI Meeting, Vill, Tyrol, 30 September-1 October, 2005
42. P. Sulzer, M. Stano, S. Feil, M. Winkler, S. Ptasińska, V. Grill, F. Zappa, B. Kräutler, T.D. Märk, P. Scheier - *Inelastic interaction of free electrons with gas phase Porphyrins*. 2nd Annual CMBI Meeting, Vill, Tyrol, 30 September-1 October, 2005
43. S. Ptasińska, S. Denifl, B. Mróz, M. Probst, V. Grill, T. D. Märk and P. Scheier - *Bond selective hydrogen abstraction from thymine*. 2nd Annual CMBI Meeting, Vill, Tyrol, 30 September-1 October, 2005
44. S. Ptasińska, S. Denifl, V. Grill, F. Zappa, M. Probst, P. Scheier and T. D. Märk – *Low energy electron with complex molecules*. LEEMI IV, 6-9 October 2005, Smolenice, Slovakia
45. I. Bald, T. Skalický, P. Sulzer, S. Ptasińska, P. Scheier and E. Illenberger – *Electron induced reaction in cyclic sugar molecules*. LEEMI IV, 6-9 October 2005, Smolenice, Slovakia

46. S. Ptasińska, S. Denifl, V. Grill, F. Rondino, F. Zappa, E. Illenberger, T. D Märk and P. Scheier - *Isotope and site labeling for the identification of resonances in dissociative electron attachment to biomolecules*. 52nd Annual Meeting of the Radiation Research Society, 16-19 October, 2005, Denver, Colorado
47. M. Beikircher, S. Ptasińska, S. Feil, M. Winkler, A. Bacher, W. Schustereder, O. Echt, T.D.Märk, P. Scheier – *Stability of uracil and thymine cations*. XV Symposium on Atomic, Cluster and Surface Physics, February 4th - 9th, 2006, Obergurgl, Austria
48. P. Sulzer, F. Rondino, D. Kilgour, V. Grill, S. Ptasińska, P. Scheier, T. D. Märk – Explosives detection by low energy electrons. XV Symposium on Atomic, Cluster and Surface Physics, February 4th - 9th, 2006, Obergurgl, Austria
49. S. Ptasińska, S. Denifl, F. Zappa, V. Grill, P. Scheier, T.D. Märk- *Site selectivity in dissociative free-electron attachment to gas phase nucleobases*. XV Symposium on Atomic, Cluster and Surface Physics, February 4th - 9th, 2006, Obergurgl, Austria
50. O. Echt, S. Ptasińska, S. Denifl, M. Stano, P. Sulzer, F. Zappa, P. Scheier, T. D. Märk, J. U. Andersen, E. Bonderup, B. Concina, P. Hvelplund, B. Liu, S. Brøndsted Nielsen, J. Rangama, J. S. Forster, K. Hansen - Fullerenes: Electron Attachment and Detachment. XV Symposium on Atomic, Cluster and Surface Physics, February 4th - 9th, 2006, Obergurgl, Austria
51. P. Sulzer, F. Rondino, D. Kilgour, V. Grill, S. Ptasińska, P. Scheier and T. D. Märk - *Dissociative electron attachment to gas phase explosives*. 39. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie (DGMS) gemeinsam mit dem 20. ICP-MS Anwendertreffen sowie dem 7. Symposium über Massenspektrometrische Verfahren der Elementspurenanalyse, 5-8 March, 2006, Mainz, Germany
52. S. Ptasińska, P. Sulzer, F. Rondino, S. Denifl, B. Mroz, M. Probst, E. Illenberger, V. Grill, T.D. Märk and P. Scheier - *Bond and site selective fragmentation upon dissociative electron attachment*. 39. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie (DGMS) gemeinsam mit dem 20. ICP-MS Anwendertreffen sowie dem 7. Symposium über Massenspektrometrische Verfahren der Elementspurenanalyse, 5-8 March, 2006, Mainz, Germany
53. P. Sulzer, F. Rondino, D. Kilgour, V. Grill, S. Ptasińska, S. Denifl, P. Scheier, T. D. Märk - *Explosives detection by low energy electrons*. DPG-Meeting Frankfurt 13-17.March 2006
54. M. Beikircher, S. Ptasińska, S. Feil, M. Winkler, A. Bacher, W. Schustereder, S. Denifl, O. Echt, T.D.Märk, P. Scheier – *Stability of uracil and thymine cations*. DPG-Meeting Frankfurt 13.3-17.3 2006
55. S. Ptasińska, S. Denifl, F. Zappa, V. Grill, P. Scheier, T.D. Märk- *Site selectivity in dissociative free-electron attachment to gas phase nucleobases*. DPG-Meeting Frankfurt 13-17.March 2006
56. F. Zappa, S. Denifl, S. Ptasińska, I. Mähr, M. Beikircher, P. Scheier, T.D. Märk – *Hidden resonances in dissociative electron attachment to thymine?* RADAM conference 2006, Groningen, Netherlands, 6-9 June 2006
57. E.S. Worm, J.U. Andersen, T. Chakraborty, A.I.S. Holm, P. Hvelplund, S.B. Nielsen, J.-C. Poully, S. Ptasińska, A.V. Streletskii, E. Williams - *Electron capture induced dissociation of peptide cations*. RADAM conference 2006, Groningen, Netherlands, 6-9 June 2006
58. S. Ptasińska, L. Sanche – *Electron irradiation of biocomplexes*. ESF-FWF Conference in Partnership with LFUI on Biomolecules: From Gas Phase Properties to Reactions relevant in Living Cells, Obergurgl, Austria, 24-29 June, 2006.
59. P. Sulzer, S. Ptasińska, S. Denifl, V. Grill, S. Moser, B. Krätler, P. Scheier, T. Märk- *Low energy electron interactions with labelled gas phase nucleobases*. ESF-FWF Conference in Partnership with LFUI on Biomolecules: From Gas Phase Properties to Reactions relevant in Living Cells, Obergurgl, Austria, 24-29 June, 2006.
60. S. Denifl, S. Ptasińska, F. Zappa, I. Mähr, M. Beikircher, P. Sulzer, P. Scheier and T.D. Märk - *Electron driven processes in molecules of biological relevance: bond, site, energy and state*

- selectivity*. ESF-FWF Conference in Partnership with LFUI on Biomolecules: From Gas Phase Properties to Reactions relevant in Living Cells, Obergurgl, Austria, 24-29 June 2006
61. E.S. Worm, J.U. Andersen, T. Chakraborty, A.I.S. Holm, P. Hvelplund, S.B. Nielsen, J.-C. Pouilly, S. Ptasinska, A.V. Streletskii, E. Williams - *Electron capture induced dissociation of peptide cations*. 1st Annual Meeting ITSLEIF, Sandbjerg, Denmark, 7-12 July, 2006
 62. S. Ptasinska, O. Echt, S. Denifl, M. Stano, P. Sulzer, F. Zappa, A. Stamatovic, P. Scheier, T. D. Märk - *Electron Attachment to Higher Fullerenes and to Sc₃N@C₈₀*. ISSPIC XIII, Göteborg, Sweden, 24-28 July, 2006
 63. P. Sulzer, F. Rondino, D. Kilgour, M. D. Brookes, V. Grill, S. Ptasinska, P. Scheier, T. D. Märk - *Dissociative electron attachment to gas phase explosives*. 17th international mass Spectrometry Conference, Prague/Czech Republic, Aug27-Sep 1, 2006
 64. S. Ptasinska, S. Denifl, P. Sulzer, F. Zappa, P. Scheier and T. D. Märk - *Site-selective fragmentation of molecules induced by electron attachment*. International Symposium "Scattering, Coincidence and Absorption Studies of Molecules" Rio de Janeiro, Brazil, Sept. 4-6, 2006
 65. P. Sulzer, V. Grill, S. Ptasinska, P. Scheier, T.D. Märk, F. Rondino, D. Kilgour, M.D. Brookes - *Dissociative electron attachment to gas phase explosives and (di)nitrotoluene-isomers*. MOLEC XVI European Conference on Dynamics of Molecular Systems, Levico Terme (Trento) Italy, 11-15 Sep, 2006
 66. S. Denifl, F. Zappa, I. Mähr, M. Beikircher, P. Sulzer, S. Ptasinska, D.K. Bohme, T.D. Märk, P. Scheier - *Free electron attachment to nucleobases: reactions induced by hydride ions*. MOLEC XVI European Conference on Dynamics of Molecular Systems, Levico Terme (Trento) Italy, 11-15 Sep, 2006
 67. S. Ptasinska and L. Sanche - *The role of water in dissociative electron attachment to DNA*. 2nd EIPAM Meeting (Electron Induced Processing At the Molecular Level), Valletta, Malta, 16-20 September 2006
 68. S. Ptasinska, P. Cloutier, A.D. Bass and L. Sanche - *Electron-Stimulated-Desorption from biologically relevant molecules*. 2nd EIPAM Meeting (Electron Induced Processing At the Molecular Level), Valletta, Malta, 16-20 September 2006
 69. V. Grill, S. Ptasinska, S. Denifl, F. Zappa, P. Scheier, T.D. Märk, Molecular data for biological Applications, ICAMDATA 05, The 5th International Conference on Atomic and Molecular Data and Their Applications, Meudon, France, 15-19 October 2006
 70. S. Ptasinska, L. Sanche - *Anion desorption from oligonucleotides induced by low energy electrons*. Radiation Research Society Annual Meeting, Philadelphia, Pennsylvania, USA, 5-8 November 2006
 71. P. Scheier, S. Denifl, F. Zappa, I. Mähr, P. Sulzer, S. Ptasinska, E. Illenberger, T.D. Märk - *Inelastic interactions of electrons with biomolecules: from gas phase to complex systems*. Symposium on Radiation Effects of Biomedical Interest, Madrid, Spain, 22-25 February 2007
 72. I. Mähr, P. Sulzer, F. Rondino, V. Grill, S. Ptasinska, D. Kilgour, M.D. Brookes, P. Scheier, T.D. Märk - *Dissociative electron attachment to gas phase explosives*. Symposium on Radiation Effects of Biomedical Interest, Madrid, Spain, 22-25 February 2007
 73. S. Ptasinska, E. Hebert, L. Sanche - *Anion desorption from hydrated single stranded DNA induced by low energy electrons*. The 1st International Conference -Medical Radiations: research and Applications. Marrakech, Morocco, 4-6 April 2007
 74. S. Jaksch, P. Sulzer, S. Denifl, A. Mauracher, F. Zappa, N. Wendt, A. Aleem, F. Rondino, A. Bacher, V. Grill, S. Ptasinska, S. Matejcik, P. Scheier, T.D. Märk - *Dissociative electron attachment to nitrotoluene isomers*. 9th European Conference on Atomic and Molecular Physics ECAMP IX, Crete, Greece, 6-11 May 2007
 75. P. Cloutier, S. Ptasinska, L. Sanche - *Désorption d'anions induite par l'impact d'électrons de basse énergie sur des films d'ADN hydratés* - 75e Congrès de l'ACFAS, Québec à Trois-Rivières, Canada, 7-11 Mai 2007

76. M. Bazin, S. Ptasińska, A. Bass, L. Sanche - *Désorption des anions des couches minces du méthanol par l'attachement dissociatif d'électrons et la dispersion réactif d'ions*. 75e Congrès de l'ACFAS, Québec à Trois-Rivières, Canada, 7-11 Mai 2007
77. S. Jheeta, A. LaFosse, B. Sivaraman, S. Ptasińska, N. J. Mason - *Irradiation of a Homogenous Mixture of Ammonia and Carbon Dioxide (NH₃:CO₂) at Low Temperatures*. New Astronomical Challenges In Surface Science, Heriot-Watt University, Edinburgh, UK, 13 – 15 June, 2007
78. B. Sivaraman, S. Ptasińska, S. Jheeta and N. J. Mason *Electron-induced Ozone Isotopomer Formation in a Binary Oxygen Mixture*. New Astronomical Challenges In Surface Science, Heriot-Watt University, Edinburgh, UK, 13 – 15 June, 2007
79. S. Ptasińska, Z. Li, T. Pengpan, R. Wagner, L. Sanche - *Irradiation of DNA-Amino Acid Complexes by Low-Energy (0 – 4 eV) Electrons*. RADAM Conference „Radiation Damage in Biomolecular System“, Dublin, Ireland, 19-22 June, 2007
80. S. Ptasińska, L. Sanche – *Hydration of single stranded DNA studied by low energy electron stimulated desorption*. International Conference of Radiation Research, San Francisco, USA, 8-12 July, 2007
81. P. Sulzer, S. Denifl, A. Mauracher, F. Zappa, N. Wendt, A. Aleem, F. Rondino, A. Bacher, V. Grill, S. Ptasińska, S. Matejčík, P. Scheier, T.D. Märk – *Dissociative electron attachment to nitrotoluene isomers*. XXV International Conference on Photonic, Electronic, and Atomic Collisions (XXV ICPEAC), Freiburg, Germany, 25 - 31 July, 2007
82. S. Ptasińska, L. Sanche – *Anion desorption from hydrated single stranded DNA induced by low energy electrons*. XXV International Conference on Photonic, Electronic, and Atomic Collisions (XXV ICPEAC), Freiburg, Germany, 25 - 31 July, 2007
83. S. Ptasińska, Y. Zheng, L. Sanche - *Resonant interactions of low energy electrons with DNA and its abasic forms*. XXV International Conference on Photonic, Electronic, and Atomic Collisions (XXV ICPEAC), Freiburg, Germany, 25 - 31 July, 2007
84. A. Stypczyńska, S. Ptasińska, T. Nixon, N.J. Mason – *Effect of X-rays on DNA*. 15th International Symposium on Electron Molecule Collisions and Swarms (EMS), Reading United Kingdom, 1-4 August 2007
85. S. Ptasińska, Z. Li, T. Pengpan, R. Wagner, L. Sanche - *Irradiation of DNA-Amino Acid Complexes by Low-Energy (1 and 10 eV) Electrons*. UK COST, Oxford, United Kingdom, 10-12 September 2007
86. S. Ptasińska, A. Stypczyńska, T. Nixon, N.J. Mason - *Radiation Damage induced by soft X-ray in the DNA molecule*. UK COST, Oxford, United Kingdom, 10-12 September 2007
87. S. Jheeta, A. LaFosse, B. Sivaraman, S. Ptasińska, N. J. Mason - *Irradiation of a Homogenous Mixture of Ammonia and Carbon Dioxide (NH₃:CO₂) at Low Temperatures*. 7th European Workshop on Astrobiology, University of Turku, Turku, Finland, October 22-24th, 2007.
88. A. Stypczyńska, S. Ptasińska, T. Nixon, N.J. Mason, J. Rak – *XPS surface analysis of poly-L-arginine hydrochloride*. XVI Symposium on Atomic, Cluster and Surface Physics (SASP) 20-25 January 2008, Les Diablerets, Switzerland
89. H. D. Flosadóttir, I. Bald, S. Ptasińska, I. Dąbkowska, O. Ingólfsson, E. Illenberger - *Electron attachment to pentafluorinated phenyl isocyanate and phenylacetonitrile*. Electron Controlled Chemical Lithography, ECCL, 12-16 March 2008, Lisbon, Portugal
90. S. Ptasińska, A. Stypczyńska, N.J. Mason – *Chemical Modification of Biological surfaces induced by X-rays*. Electron Controlled Chemical Lithography, ECCL, 12-16 March 2008, Lisbon, Portugal
91. I. Dąbkowska, H.D. Flosadóttir, S. Ptasińska, I. Bald, O. Ingólfsson, E. Illenberger, *Electron attachment to pentafluorinated phenyl-isocyanate and phenylacetonitrile. Experiment and theory*. Electron Induced processes at Molecular Level-Low Energy Electron Molecule Interaction, 07-11, May 2008, Roscoff, France

92. S. Ptasińska, E. Alizadeh, P. Sulzer, R. Abouaf, N.J. Mason, T.D. Märk, P. Scheier, *Formation of negative ions by low energy (<20 eV) electron impact to gas phase 5-nitrouracil*. Electron Induced processes at Molecular Level-Low Energy Electron Molecule Interaction, 07-11, May 2008, Roscoff, France
93. A. Stypczyńska, S. Ptasińska, T. Nixon, N.J. Mason, XPS studies of poly-L-arginine hydrochloride on silicon surface, Radiation Damage in Biomolecular Systems, RADAM 2008, 13-15 June 2008, Debrecen, Hungary
94. S. Denifl, S. Ptasińska, P. Sulzer, F. Zappa, F. Ferreira da Silva, M. Probst, A. Mauracher, E. Illenberger, D.K. Bohme, T.D. Märk, P. Scheier - *Inelastic interactions of electrons with biomolecules: from gas phase to complexes and clusters*. 8th International Conference on Pulse Investigations in Chemistry, Biology and Physics PULS 2008, 6-12 September 2008, Krakau, Poland & Free Radicals in Chemical Biology, Joint Working Groups Meeting CM0603
95. S. Ptasińska, A. Stypczyńska, N.J. Mason, L. Sanche. *X-ray irradiation of multilayered DNA-polypeptide thin films*. RRS 54th Annual Meeting, September 21-24, 2008, Boston, USA
96. B. Bahnev, A. Stypczyńska, S. Ptasińska, M.D. Bowden, N.St.J. Braithwaite – *Investigation of low frequency atmospheric pressure plasma jet*. 11th Euregional WELTPP (Workshop on the Exploration of Low temperature Plasma Physics) 13-14 November 2008, Kerkrade, the Netherlands
97. B. Bahnev, A. Stypczyńska, S. Ptasińska, M.D. Bowden, N.St.J. Braithwaite – *Investigation of low frequency atmospheric pressure plasma jet*. 6th Technological Plasma Workshop, TPW 08, 15-16 December 2008, Milton Keynes, United Kingdom
98. A. Stypczyńska, S. Ptasińska, B. Bahnev, M.D. Bowden, N. Mason, N.St.J. Braithwaite – *Investigation of low frequency atmospheric pressure plasma jet*. 6th Technological Plasma Workshop, TPW 08, 15-16 December 2008, Milton Keynes, United Kingdom
99. A. Stypczyńska, S. Ptasińska, T. Nixon, N.J. Mason - *XPS as a tool for characterising DNA damage*. IOP Atomic and Molecular Interactions Group: Winter Meeting AMIG, 29-30 January 2009, Milton Keynes, United Kingdom
100. B. Bahnev, M. Bowden, S. Ptasińska, A. Stypczyńska, N. St. J. Braithwaite – DNA damaging as a detection of plasma boundaries in the open atmosphere. IOP Plasma Physics Group: Annual General Meeting, 1 April 2009, Warwick, United Kingdom
101. B. Bahnev, A. Stypczyńska, S. Ptasińska, M.D. Bowden, N.St.J. Braithwaite *Measuring plasma boundaries via observations of DNA damage*. Frontiers in Low Temperature Plasma Diagnostics (FLTPD08), 19–23 April 2009, Blansko, Czech Republic
102. A. Stypczyńska, S. Ptasińska, T. Nixon, N.J. Mason - *Directly induced damage of biomolecules studied by means of X-ray Photoelectron Spectroscopy*. ESF-EMBO Symposium Spatio-Temporal Radiation Biology: Transdisciplinary Advances For Biomedical Applications, 16-21 May 2009, Sant Feliu de Guixols, Spain
103. K. Polska, I. Sobolewski, A. Żylicz-Stachula, S. Ptasińska, N.J. Mason, P. Skowron, J. Rak - *Enzymatic/HPLC assay of 5-bromouracil incorporated in DNA by means of PCR*. 6th International Conference on Radiation Damage in Biomolecular System (RADAM), 1-5 July, 2009, Frankfurt, Germany
104. K. Polska, I. Sobolewski, A. Żylicz-Stachula, P. Skowron, P. Możejko, C. Szmytkowski, S. Ptasińska, N.J. Mason, J. Rak – *Damage to plasmid DNA induced by its interaction with gold, tantalum or silica surface*. 6th International Conference on Radiation Damage in Biomolecular System (RADAM), 1-5 July, 2009, Frankfurt, Germany
105. S. Ptasińska, A. Mauracher, S. Denifl, C.A. Hunniford, N.J. Mason, P. Scheier and R.W. MacCullough – *Desorption of small fragments from oligonucleotides induced by low energy carbon ions*. 6th International Conference on Radiation Damage in Biomolecular System (RADAM), 1-5 July, 2009, Frankfurt, Germany
106. S. Ptasińska, B. Bahnev, A. Stypczyńska, M.D. Bowden, N.St.J. Braithwaite, N.J. Mason - *The effect of a cold atmospheric pressure plasma jet on DNA*. XXIII International Conference

- on Photonic, Electronic, and Atomic Collisions (XXVI ICPEAC), 22 - 28 July 2009, Kalamazoo, Michigan, USA
107. S. Ptasińska, A. Styczyńska, B. Bahnev, M.D. Bowden, N.St.J. Braithwaite, N.J. Mason - *The effect of a non-thermal atmospheric pressure plasma jet on DNA*. 55th Annual Meeting of the Radiation Research Society; October 4-7, 2009, Savannah, USA
 108. G. Vall-Iloera, S. Lacombe, R. Panajotovic, S. Ptasińska, S. Sarabipour, F Hennies, E Rachlew, M.A. Huels - *The morphology and degradation of adenine films*, 55th Annual Meeting of the Radiation Research Society; October 4-7, 2009, Savannah, USA
 109. K. Polska, A. Żylicz-Stachula, I. Sobolewski, J. Rak, P. Skowron, P. Możejko, C. Szmytkowski, S. Ptasińska, N.J. Mason, T. Gotszalk, *Interactions of plasmid DNA with various surfaces (gold, tantalum and silica)*. IV Russian-Ukrainian-Polish Conference on Molecular Interactions, 4-9 October 2009, Jastarnia, Poland
 110. O. Plekan, V. Feyer, N. Tsud, S Ptasińska, and K.C. Prince. *A photoemission study of thymidine adsorption on solid surfaces*. EIPAM/PEIC, Joint EU-Australia meeting, 12-16 October 2009, Trieste, Italy
 111. S. Ptasińska, B. Bahnev, A. Styczyńska, M. Bowden, N. St. Braithwaite, N. Mason - *Non-thermal atmospheric pressure plasma treatment of DNA molecules*. Collisions with Molecules and Clusters IOP meeting, Molecular Physics Group and the Atomic and Molecular Interactions Group (AMIG), 15-16 April 2010, The Open University, Milton Keynes, United Kingdom
 112. S. Ptasińska, O. Plekan, V. Feyer, K.C. Prince - *Adsorption geometry of thymidine on Au (111) surface: experiment and computational modelling*. Isolated biomolecules and biomolecular interactions (IBBI 2010), Berlin, Germany, June 12-17, 2010
 113. S. Ptasińska, A. Styczyńska, B. Bahnev, T. Pengpan, L. Sanche, N. J. Mason - *The effect of amino-acids on DNA damage induced by cold plasma and low energy electrons*. RADAM Conference „Radiation Damage in Biomolecular System“, Madrid, Spain, 30 June- 4 July, 2010
 114. A. Styczyńska, S. Ptasińska, T. Nixon, N. Mason - *Chemical modifications of biomacromolecules caused by soft X-rays*. RADAM Conference „Radiation Damage in Biomolecular System“, Madrid, Spain, 30 June- 4 July, 2010
 115. S.Denifl, S. Ptasińska, A. Mauracher, C.A. Hunniford, P. Scheier, N.J. Mason, R.W. McCullough - *Low-energy ion beam irradiation of oligonucleotides: desorption of small fragment ions*. RADAM Conference „Radiation Damage in Biomolecular System“, Madrid, Spain, 30 June- 4 July, 2010
 116. M. A. Śmiałek, S. Ptasińska, J. Gow, C. DaPieve, S. Vrønning Hoffmann, N.J. Mason - *DNA radio- and photosensitization with platinum-bromine complexes*. RADAM Conference „Radiation Damage in Biomolecular System“, Madrid, Spain, 30 June- 4 July, 2010
 117. S. Ptasińska, B. Bahnev, A. Styczyńska, M. Bowden, N. Mason and N. St. Braithwaite - *Detection of cold plasma effluent by probing DNA damage*. 10th European Conference on Atoms, Molecules and Photons, (ECAMP), Salamanca, Spain, July 4-9, 2010
 118. A. Styczyńska, S. Ptasińska, T. Nixon, N. Mason - *Experimental investigations of the core level spectra of biomacromolecules*. 10th European Conference on Atoms, Molecules and Photons, (ECAMP), Salamanca, Spain, July 4-9, 2010
 119. S. Ptasińska, Z. Li, N.J. Mason, L. Sanche – *The influence of amino acids on the fragmentation of oligonucleotides exposed to low energy electrons*. Radiation Research Society, Annual Meeting, Maui, USA, September 25-29, 2010
 120. A. Styczyńska, S. Ptasińska, B. Bahnev, T. Pengpan, L. Sanche, N. J. Mason - *The effect of amino-acids on DNA damage induced by cold plasma and low energy electrons*. International Workshop on Radiosensitization : From fundamental processes involved in radiosensitization to biological applications, Orsay, France, December 2-3, 2010

121. O. Plekan, V. Feyer, K. C. Prince, S. Ptasińska, N. Tsud - *Cyclic dipeptide immobilization on Au (111) and Cu (110) surfaces*, 43rd Conference of the European Group for Atomic Systems (EGAS) June 28 - July 2, 2011 Fribourg, Switzerland
122. S. Ptasińska, A. Stypczyńska, B. Bahnev, M. Bowden, N. St. Braithwaite, N. Mason - Interaction of highly reactive species of cold plasma with DNA-protein complexes. 27th Miller Conference on radiation Chemistry, 20-25 May 2011, Tallberg, Sweden,
123. J. LaVerne, D.M. Chipman, I. Carmichael, D. Meisel, S. Ptasińska, *Radiation Effects in Heterogeneous Systems and at Interfaces*. 7th research Meeting of the Condensed Phase and Interfacial Molecular Science, Baltimore, MD, June 12-15, 2011
124. S. Ptasińska, A. Stypczyńska, B. Bahnev, N.J. Mason, *DNA damage induced by fast-flowing metastable species in a cold plasma*. 14th International Congress of Radiation Research, 28 August-1 September 2011
125. S. Ptasińska, L. Sanche, *The action of amino acids on electron irradiated DNA films*. 14th International Congress of Radiation Research, 28 August-1 September 2011
126. J. Brems, S. Ptasińska, *The effect of X-ray induced radiation on DNA and poly-L-arginine*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 4, 2012
127. W. Cantrell, S. Ptasińska, *Construction and development of an electron radiator for DNA damage studies*, Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 4, 2012
128. B. Coffey, S. Ptasińska, *Development and species characterization of atmospheric pressure plasma jets*, Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 4, 2012
129. J. Levri, S. Ptasińska, *Plasma surface cleaning*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 4, 2012
130. Y. Yurkovich, S. Ptasińska, *Treatment of SCC-25 oral cancer cells with non-thermal atmospheric pressure plasma jet*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 4, 2012
131. S. Reiff, S. Ptasińska, *Radiation damage of DNA from 10 eV electrons monitored by x-ray photoelectron spectroscopy*. 12th International Workshop on Radiation Damage to DNA, Prague, Czech Republic, June 2-6, 2012
132. S. Ptasińska, M. Klas, X. Han. *Atmospheric pressure plasma jet for biomedical applications*. 12th International Workshop on Radiation Damage to DNA, Prague, Czech Republic, June 2-6, 2012
133. S. Ptasińska, X. Han, J. Levri, M. Klas. *DNA damage by Atmospheric Pressure Plasma Jet*. Gordon Research Conference: Plasma Processing Science, Smithfield, RI, USA, July 22-27 2012
134. I. Tolbatov, D.M. Chipman, S. Ptasińska. *Towards understanding of Titan's atmosphere chemistry*. Radiation Chemistry Radiation Driven Processes in Physics, Chemistry, Biology and Industry, Andover, NH, USA, July 29 - August 3 2012
135. X. Han, E. Escobar, M. Klas, J. Levri, J. Yurkovich, B. Coffey, S. Ptasińska, *Atmospheric Pressure Plasma Jet for treatment of biological surfaces*. Gordon Research Conference: Radiation Chemistry Radiation Driven Processes in Physics, Chemistry, Biology and Industry, Andover, NH, USA, July 29 - August 3 2012
136. S. Reiff, J. Brems, A. Stypczyńska, T. Nixon, N.J. Mason, S. Ptasińska. *Investigation of radiation damage to poly-L-arginine using X-Ray Photoelectron Spectroscopy*. Gordon Research Conference: Radiation Chemistry Radiation Driven Processes in Physics, Chemistry, Biology and Industry, Andover, NH, USA, July 29 - August 3 2012
137. J.A. LaVerne, D.M. Bartels D.M. Chipman, S. Ptasińska. *Radiation Chemistry Underpinning Nuclear Power Generation*, 8th research Meeting of the Condensed Phase and Interfacial Molecular Science, Potomac Maryland, October 21 – 24, 2012

138. D.M. Bartels, I. Carmichael, D.M. Chipman, I. Janik, J.A. LaVerne, S. Ptasinska, *Fundamental Advances in Radiation Chemistry*, 8th research Meeting of the Condensed Phase and Interfacial Molecular Science, Potomac Maryland, October 21 – 24, 2012
139. J. Yurkovich, X. Han, B. Coffey, M. Klas, S. Ptasinska, *Treatment of oral cancer cells with nonthermal atmospheric pressure plasma jet*. 65th Annual Gaseous Electronics Conference, Austin, TX, USA, October 22 -26, 2012
140. E. Lamere, X. Zhang, X. Li, J. Furdyna, S. Ptasinska, *Morphology effects in electronic properties of GaAs*. Graduate Student Union Research Symposium Notre Dame, IN February 27, 2013
141. J. Brems, S. Ptasinska, *Characterization of Polyamine/DNA Bilayers for Bio-functional Material Purposes*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 3, 2013
142. W.A. Cantrell, S. Ptasinska, *Damage to DNA in DNA-Gold Nanoparticle Mixture by Atmospheric Pressure Plasma Jet*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 3, 2013
143. J. Kabuye, S. Ptasinska, *Dissociative Electron Attachment to DNA in a DNA-Glycine mixture*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 3, 2013
144. E. Kunce, S. Ptasinska, *Effects of Helium Plasma Radiation on Glycine Solution*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 3, 2013
145. R. Mumme, S. Ptasinska, *Characterization of Polyelectrolytic Microcapsules by Atomic Force Microscopy*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 3, 2013
146. I. Tolbatov, S. Ptasinska, D.M. Chipman, *Formation of monocarbon molecular complexes from irradiated methane - nitrogen mixtures in He droplets*. 45th Midwest Theoretical Chemistry Conference. Urbana-Champaign, IL, May 29– 31, 2013
147. X. Zhang, S. Ptasinska, *Growth of Amorphous Silicon Nitride Film on Silicon Wafer by Atmospheric Pressure Plasma Jet*. 35th Annual Symposium on Applied Surface Analysis, Urbana-Champaign, IL, June 5-7, 2013
148. E. Lamere, X. Zhang, X. Liu, J. Furdyna, S. Ptasinska, *Characterization of Environmental Molecules on GaAs Surfaces by Near Ambient Pressure X-ray Photoelectron Spectroscopy*, 35th Annual Symposium on Applied Surface Analysis, Urbana-Champaign, IL, June 5-7, 2013
149. E. Lamere, X. Zhang, X. Liu, J. Furdyna, S. Ptasinska, *Size-dependent effects on the electronic properties of GaAs*. 55th Electronic Materials Conference, Notre Dame, IN, June 26-28, 2013
150. X. Zhang, S. Ptasinska, *Silicon surface treatment by Atmospheric Pressure Plasma Jet*. 55th Electronic Materials Conference, Notre Dame, IN, June 26-28, 2013
151. I. Tolbatov, S. Ptasinska, D.M. Chipman, *Methane clusters under electron irradiation*. 246th American Chemical Society National Meeting, Indianapolis, IN, September 8–12, 2013
152. X. Zhang, E. Lamere, X. Liu, J. Furdyna, S. Ptasinska. *In-situ X-ray photoelectron spectroscopy studies of small environmental molecules on GaAs surface*. 246th American Chemical Society National Meeting, Indianapolis, IN, September 8–12, 2013
153. M.M. Dawley, S. Ptasinska, *Dissociative electron attachment studies using a new optimized crossed molecular beam/low-energy electron experimental chamber*. 246th American Chemical Society National Meeting, Indianapolis, IN, September 8–12, 2013
154. S. Reiff, J. Brems, S. Ptasinska, *Characterization of interfaces between polypeptide and DNA layers using X-ray photoelectron spectroscopy*, 19th International Vacuum Congress (IVC), Paris, France, September 9-13, 2013
155. X. Zhang, S. Ptasinska, *Growth of Amorphous Silicon Nitride Films on Silicon Wafer by Atmospheric Pressure Plasma Jet*. 66th Gaseous Electronic Conference (GEC), Princeton, NJ, September 30-October 4, 2013

156. X. Han, M. Klas, Y. Liu, M.S. Stack, S. Ptasińska. *DNA damage in oral cancer cells induced by nitrogen atmospheric pressure plasma jets*. 66th Gaseous Electronic Conference (GEC), Princeton, NJ, September 30-October 4, 2013
157. J. Brems, S. Ptasińska, *Characterization of Layer-by-Layer DNA/PLA Microcapsules by Atomic Force Microscopy*. College of Science – Fall Undergraduate Research Fair 2013, Notre Dame October 31, 2013, Notre Dame
158. E. Kuncce, S. Ptasińska, *Glycine Alteration By Cold Atmospheric Plasma*. College of Science – Fall Undergraduate Research Fair 2013, Notre Dame October 31, 2013
159. I. Tolbatov, D. Chipman, S. Ptasińska, *On the way to understanding the chemistry of Titan's atmosphere*, Graduate Student Union, Graduate Research Symposium, Notre Dame, February 27, 2014
160. X. Han, S. Ptasińska, *Atmospheric Pressure Plasma Jet as a New Tool for Medical Application*, Graduate Student Union, Graduate Research Symposium, Notre Dame, February 27, 2014
161. K.P. Arjunan, S. Ptasińska, *Surface Sterilization by Cold Atmospheric Pressure Plasma Jet*, Graduate Student Union, Graduate Research Symposium, Notre Dame, February 27, 2014
162. X. Zhang, S. Ptasińska, *Near ambient pressure X-ray photoelectron spectroscopy study of N₂O, NO and O₂ interactions with GaAs (100)*. Graduate Student Union, Graduate Research Symposium, Notre Dame, February 27, 2014
163. X. Han, Y. Liu, M.S. Stack, S. Ptasińska, *Cold atmospheric plasma jet as a new tool for cancer cell treatment*, Harper Cancer Research Institute Research Day, Notre Dame, IN April 14, 2014
164. I. Tolbatov, D.M. Chipman, S. Ptasińska, *Study of clusterization processes in the irradiated ultra-cold methane - nitrogen mixtures*. 3rd Annual GPS Spring Conference, Notre Dame. IN April 28, 2014
165. W. Cantrell, N. Brinkmann, S. Ptasińska, *Computational Examination of Electron-Induced Dissociation of Hypoxanthine and Adenine* Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 2, 2014
166. A. Jensen, S. Ptasińska, *Damage to DNA with Various Flow Rates by Atmospheric Pressure Plasma Jet*, Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 2, 2014
167. J. Kabuye, S. Ptasińska, *Dissociative Electron Attachment to DNA in a DNA-Glycine mixture*, Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 2, 2014
168. E. Kuncce, S. Ptasińska, *Effects of Atmospheric-Pressure Helium Plasma on Cysteine Solutions*, Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 2, 2014
169. X. Han, W.A. Cantrell, E.E. Escobar, Y. Liu, M.S. Stack, S. Ptasińska, *Damage of plasmid and cellular DNA induced by atmospheric pressure plasma jets*. 13th International Workshop on Radiation Damage to DNA, MIT, Cambridge, Massachusetts USA, June 14-18, 2014
170. K.P. Arjunan, S. Ptasińska, *Surface Sterilization by Cold Atmospheric Pressure Plasma Jet Ignited in Helium and Helium/Oxygen Mixture*, Gordon Research Conference: Plasma Processing Science, Bryant University Smithfield, RI, July 26-27, 2014
171. X. Han, Y. Liu, M.S. Stack, S. Ptasińska, *DNA damage in oral cancer and healthy cells induced by nitrogen atmospheric pressure plasma jets*. Gordon Research Conference: Plasma Processing Science, Bryant University Smithfield, RI, July 26-27, 2014
172. X. Han, I. Janik, S. Ptasińska, *Radiation dose characterization of helium atmospheric pressure plasma jets using Fricke dosimetry for biological applications*. Gordon Research Conference: Radiation Chemistry, Radiation Driven Processes In Physics, Chemistry, Biology and Industry, Andover, NH, July 13-18, 2014
173. W.A. Cantrell, M.M. Dawley, N.R. Brinkmann, S. Ptasińska, *Electron Ionization of the Nucleobases Adenine and Hypoxanthine*. Gordon Research Conference: Radiation Chemistry,

- Radiation Driven Processes In Physics, Chemistry, Biology and Industry, Andover, NH, July 13-18, 2014
174. M.M. Dawley, S. Ptasinska, *Dissociative electron attachment to gas-phase N-methylformamide*, Gordon Research Conference: Radiation Chemistry, Radiation Driven Processes In Physics, Chemistry, Biology and Industry, Andover, NH, July 13-18, 2014
 175. C. Luck, E. Bell, S. Ptasinska, *Plasmid DNA Damage Induced by Helium and Oxygen Atmospheric Pressure Plasma Jet*. Summer Undergraduate Research Symposium, Notre Dame, IN August 1, 2014
 176. S. Ptasinska, X. Han, *DNA Strand Break Formation in Cells by Atmospheric Pressure Plasma Jet*, 27th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2014), Belgrade, Serbia, August 26 -29, 2014
 177. X. Zhang, S. Ptasinska, *Dynamic H₂O/GaP (110) interfacial chemistry tracked by near ambient pressure XPS in real time*. Loyola University Chicago, Chicago, IL, September 10, 2014
 178. X. Zhang, S. Ptasinska, *Evolution of surface-assisted oxidation of GaAs (100) by gas-phase N₂O, NO and O₂ probed by near ambient pressure X-ray photoelectron spectroscopy*, Dynamics, Interactions and Electronic Transitions at Surfaces (DIET 14), Pacific Grove, CA, October 13-17, 2014
 179. J.A. LaVerne, D.M. Bartels, I. Carmichael, S. Ptasinska, *Interfacial Radiation Sciences*. 10th Condensed Phase and Interfacial Molecular Science (CPIMS) Program, Potomac, Maryland, October 19-22, 2014 D.M. Bartels, I. Carmichael, D.M. Chipman, I. Janik, J.A. LaVerne, S. Ptasinska, *Fundamental Advances in radiation Chemistry*, 10th Condensed Phase and Interfacial Molecular Science (CPIMS) Program, Potomac, Maryland, October 19-22, 2014
 180. S. Ptasinska, X. Zhang, *Morphology Dependence of Gas-Phase Molecule Interactions with GaAs Surfaces*, American Vacuum Conference, 61st International Symposium & Exhibition, Baltimore, MD, November 9-14, 2014
 181. X. Zhang, S. Ptasinska, *Evolution of Surface-Assisted Oxidation of GaAs by Gas-Phase N₂O, NO and O₂*, American Vacuum Conference, 61st International Symposium & Exhibition, Baltimore, MD, November 9-14, 2014
 182. X. Zhang, S. Ptasinska, *Dynamic H₂O/GaP (111) interfacial chemistry monitored by near-ambient pressure XPS in real time*. Pacific Rim Symposium on Surfaces, Coatings and Interfaces (PacSurf 2014), Big Island of Hawaii, December 7-11, 2014
 183. S. Ptasinska, X. Zhang, *Interfacial Chemistry between gas-phase molecules and GaAs surfaces: morphology dependence*. Pacific Rim Symposium on Surfaces, Coatings and Interfaces (PacSurf 2014), Big Island of Hawaii, December 7-11, 2014
 184. S. Ptasinska, X. Zhang, *Interfacial chemistry of water and Ga-based semiconductor surfaces*. International workshop on "Surface chemistry and near-ambient pressure photoemission; new tools and new paradigms" SOLEIL, France, December 10-12, 2014
 185. W. Huang, S. Ptasinska, *Functionalization of Graphene by Atmospheric Pressure Plasma Jet*, Gordon Research Conference: Chemical Reactions at Surfaces, Ventura, California, February 7-13, 2015
 186. E. Adhikari, S. Ptasinska, *Characterization of an Atmospheric Pressure Plasma Jet (APPJ) and its Effect on Plasmid DNA*. Graduate Student Union and Office for Postdoctoral Scholars 7th Annual Research Symposium, Notre Dame, IN, April 9, 2015
 187. X. Han, J. Kapaldo, I. Janik, S. Ptasinska, *Plasma jet induced liquid chemistry*. Graduate Student Union and Office for Postdoctoral Scholars 7th Annual Research Symposium, Notre Dame, IN, April 9, 2015
 188. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasinska, *Cold plasma as a novel tool for cancer treatment*. 4th Annual Harper Cancer Research institute Research Day, Notre Dame, IN, April 13, 2015

189. X. Zhang, S. Ptasinska, *Dynamic H₂O/GaP (111) Interfacial Chemistry Monitored by Near-Ambient Pressure XPS in Real Time*. GLCACS Annual Conference, Northwestern University, Evanston, IL, USA, May 2, 2015
190. S. Ptasinska, X. Zhang, *Interfacial processes between gas-phase molecules and Ga-based surfaces probed by near-ambient pressure XPS*. 37th Department of Energy Solar Photochemistry Research Conference, Gaithersburg, Maryland, May 31-June 3, 2015
191. W. Huang, S. Ptasinska, *Functionalization of Graphene by Atmospheric Pressure Plasma Jet*. American Vacuum Society (AVS) Prairie Chapter Symposium, Notre Dame, IN, September 10, 2015
192. S. Sadhu, W. Huang, S. Ptasinska, *Effects of Organic Halides and Substrates on the Perovskite Crystal Growth*. American Vacuum Society (AVS) Prairie Chapter Symposium, Notre Dame, IN, September 10, 2015
193. X. Zhang, S. Ptasinska, *Dynamic O₂ and H₂O/GaP (111) Interfacial Chemistry Monitored by Near-Ambient Pressure X-ray Photoelectron Spectroscopy*. American vacuum Society (AVS) Prairie Chapter Symposium, Notre Dame, IN, September 10, 2015
194. E. Adhikari, S. Ptasinska, *Characterization of an Atmospheric Pressure Plasma Jet (APPJ) and its Effect on Plasmid DNA*. 68th Annual Gaseous Electronics Conference (GEC)/9th International Conference on Reactive Plasmas/33rd Symposium on Plasma Processing, Honolulu, HI, October 12-16, 2015
195. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasinska, *DNA damage in oral cancer cells induced by atmospheric pressure plasma jets*. 68th Annual Gaseous Electronics Conference (GEC)/9th International Conference on Reactive Plasmas/33rd Symposium on Plasma Processing, Honolulu, HI, October 12-16, 2015
196. J. Kapaldo, X. Han, S. Ptasinska, *A characterization of atmospheric pressure plasma jets through a spatio-temporal mapping of the optical emission spectra*. 68th Annual Gaseous Electronics Conference (GEC)/9th International Conference on Reactive Plasmas/33rd Symposium on Plasma Processing, Honolulu, HI, October 12-16, 2015
197. Z. Li, M.M. Dawley, S. Ptasinska, *Gas Phase Dissociative Electron Attachment to Formamide Derivatives NMF and DMF*. 68th Annual Gaseous Electronics Conference (GEC)/9th International Conference on Reactive Plasmas/33rd Symposium on Plasma Processing, Honolulu, HI, October 12-16, 2015
198. X. Zhang, S. Ptasinska, *Formation of Heterogeneous Multiple-Oxide/Hydroxide Species on a GaP(111) Surface tracked by In-situ Near-Ambient Pressure XPS*. American Vacuum Society (AVS) 62st International Symposium & Exhibition, San Jose, CA, October 18-23, 2015
199. E. Adhikari, S. Ptasinska, *Characterization of an Atmospheric Pressure Plasma Jet (APPJ) and its Effect on Plasmid DNA*. Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015
200. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasinska, *Cold plasma as a novel tool for cancer treatment*. Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015
201. W. Huang, S. Ptasinska, *Functionalization of Graphene by Atmospheric Pressure Plasma Jet*. Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015
202. J. Kapaldo, X. Han, S. Ptasinska, *A characterization of atmospheric pressure plasma jets through a spatio-temporal mapping of the optical emission spectra*. Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015
203. S. Sadhu, W. Huang, S. Ptasinska, *Effects of Organic Halides and Substrates on the Perovskite Crystal Growth*. Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015

204. X. Zhang, S. Ptasińska, *Formation of Multiple-Oxide/Hydroxide Species on GaP(111) Surface tracked by Near-Ambient Pressure XPS*. Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015
205. W. Huang, S. Ptasińska, *Evolution of Chemo-structural Composition of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite under Ambient Conditions*. 2nd Annual AP-XPS Workshop, Lawrence Berkeley National Laboratory, CA, December 7-9, 2015.
206. X. Zhang, S. Ptasińska, *Dynamic O_2 and $\text{H}_2\text{O}/\text{GaP}$ (111) Interfacial Chemistry Monitored by Near-Ambient Pressure X-ray Photoelectron Spectroscopy*. 2nd Annual AP-XPS Workshop, Lawrence Berkeley National Laboratory, CA, December 7-9, 2015.
207. S. Sadhu, W. Huang, S. Ptasińska, *Investigation of Water Adsorption on Oriented Rutile (001) Titania Nanorods at Ambient Conditions through In-situ X-ray Photoelectron Spectroscopy*. 2nd Annual AP-XPS Workshop, Lawrence Berkeley National Laboratory, CA, December 7-9, 2015
208. E. Adhikari, S. Ptasińska, *Characterization of an Atmospheric Pressure Plasma Jet (APPJ) and its Effect on Plasmid DNA*. Graduate Physics Students Annual Conference, Notre Dame, IN, December 11, 2015
209. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasińska, *Cold plasma as a novel tool for cancer treatment*. Graduate Physics Students Annual Conference, Notre Dame, IN, December 11, 2015
210. J. Kapaldo, X. Han, S. Ptasińska, *A characterization of atmospheric pressure plasma jets through a spatio-temporal mapping of the optical emission spectra*. Graduate Physics Students Annual Conference, Notre Dame, IN, December 11, 2015
211. Z. Li, M.M. Dawley, S. Ptasińska, *Gas Phase Dissociative Electron Attachment to Formamide Derivatives NMF and DMF*. Graduate Physics Students Annual Conference, Notre Dame, IN, December 11, 2015
212. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasińska, *Cold plasma as a novel tool for cancer treatment*. Three minute thesis (3MT) in Science division, Notre Dame, IN, February 24, 2016
213. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasińska, *Cold plasma as a novel tool for cancer treatment*. 5th Annual Harper Cancer Research institute Research Day, Notre Dame, IN, April 4, 2016
214. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasińska, *Cold plasma as a novel tool for cancer treatment*. 8th Annual Graduate Student Union, Notre Dame, IN, April 19, 2016
215. J. Kapaldo, X. Han, S. Ptasińska, *A characterization of atmospheric pressure plasma jets through a spatio-temporal mapping of the optical emission spectra*. 8th Annual Graduate Student Union, Notre Dame, IN, April 19, 2016
216. C. Ferrari, S. Ptasińska, *Computational Analysis of Dissociative Electron Attachment to Thymine*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, April 29, 2016
217. E. Kuncce, S. Ptasińska, *The Effect of Plasma Radiation on Nucleobase Solutions*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, April 29, 2016
218. X. Zhang, S. Ptasińska, *Interfacial Processes at $\text{H}_2\text{O}/\text{III-V}$ Semiconductor Surfaces under Operando Conditions*. 38th Department of Energy Solar Photochemistry Research Conference, Gaithersburg, Maryland, June 6-9, 2016
219. E. Adhikari, S. Ptasińska, *The role of helium atmospheric pressure plasma jet (APPJ) parameters on plasma induced DNA damage*. Gordon Research Conference/Seminar (GRC/GRS): Plasma Processing Science, Andover, NH, USA, July 24-29 2016
220. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasińska, *DNA damage in oral cancer cells induced by nitrogen atmospheric plasma jets*. Gordon Research Conference (GRC/GRS): Plasma Processing Science, Andover, NH, USA, July 24-29 2016

221. J. Kapaldo, X. Han, S. Ptasińska, *High throughput imaging for studying the spatial effect of cold atmospheric plasma jets on cell cultures*. Gordon Research Conference (GRC/GRS): Plasma Processing Science, Andover, NH, USA, July 24-29 2016
222. V. Samara, S. Ptasińska *Investigation of Atmospheric Pressure Plasma Jets by Schlieren photography and interferometry*. Gordon Research Conference (GRC/GRS): Plasma Processing Science, Andover, NH, USA, July 24-29 2016
223. X. Han, J. Kapaldo, I. Janik, S. Ptasińska, Interactions of atmospheric pressure plasma jet with liquid surfaces. 28th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2016), Belgrade, Serbia, August 29-September 2, 2016
224. M. Ryszka, E. Alizadeh, S. Ptasińska, *Low Energy Electron Induced Fragmentation of Nicotine and N-Methylpyrrolidine*. 28th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2016), Belgrade, Serbia, August 29-September 2, 2016
225. X. Zhang, S. Ptasińska, *Interfacial processes at H₂O/III-V semiconductor surfaces under operando conditions*. 38th Department of Energy Solar Photochemistry Research Conference, Gaithersburg, MD June 6-9, 2016
226. E.R. Adhikari, X. Han, J. Kapaldo, V. Samara, I. Janik, S. Ptasińska, *Atmospheric pressure plasma jet: its characterization and equivalent dose in aqueous solutions*. 1st International Conference on Ionizing Processes, Brookhaven National Laboratory, Upton, NY October 10-14, 2016
227. M. Ryszka, E. Alizadeh, S. Ptasińska, *Low energy electron-induced fragmentation of nicotine and N-methylpyrrolidine*. 1st International Conference on Ionizing Processes, Brookhaven National Laboratory, Upton, NY October 10-14, 2016
228. H. Schurr, E. Panken, S. Ptasińska. *Effects of plasma radiation on nucleobase and plasmid DNA solutions*. College of Science- Fall Undergraduate Research Fair, University of Notre Dame, Notre Dame, IN October 27, 2016
229. E. Wellman, E.R. Adhikari, S. Ptasińska. *Electrical plasmas for biomedical applications*. College of Science- Fall Undergraduate Research Fair, University of Notre Dame, Notre Dame, IN October 27, 2016
230. D.M. Bartels, I. Carmichael, I. Janik, J.A. LaVerne, S. Ptasińska, *Fundamental advances in radiation chemistry*. 12th Condensed Phase and Interfacial Molecular Science PI Meeting, Gaithersburg, MD November 1-4, 2016
231. J.A. LaVerne, D.M. Bartels, I. Carmichael, S. Ptasińska. *Interfacial radiation sciences*. 12th Condensed Phase and Interfacial Molecular Science PI Meeting, Gaithersburg, MD November 1-4, 2016
232. S. Sadhu, W. Huang, S. Ptasińska. *Exploring the Aging of MoS₂ through Ambient Pressure X-ray Photoelectron Spectroscopy*. Inaugural College of Science - Joint Annual Meeting (COS-JAM) for Graduate Students and Postdoctoral Fellows University of Notre Dame, Notre Dame, IN May 4, 2017
233. E. Wellman, E. Adhikari, S. Ptasińska. *Electrical Plasmas for Biomedical Applications*. 11th Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 5, 2017
234. V. Samara, S. Ptasińska. *Interaction of Atmospheric Pressure Plasma Jet with Helium Flow*. the 44th IEEE International Conference on Plasma Science (ICOPS 2017), Atlantic City, NJ May 21-25, 2017
235. S. Ptasińska, *Chemo-Structural Composition and Photovoltaic Efficiency of CH₃NH₃PbI₃ Perovskite affected by external factors*. 39th DOE Solar Photochemistry Research Principal Investigator Meeting, Gaithersburg, MD, June 5-8, 2017
236. W. Huang, S. Ptasińska, *Chemical transformations of hybrid perovskites under environmental conditions*. 21th Annual Conference of the Chinese American Chemical Society Great Lakes Chapter of CACS (GLCACS), June 10, 2017

237. D.M Bartels, I. Carmichael, I. Janik, J.A. LaVerne, S. Ptasinska, *Fundamental Advances in radiation Chemistry*. 13th Condensed Phase and Interfacial Molecular Science (CPIMS) Research Meeting, Gaithersburg, MD, October 15-18, 2017
238. E. Adhikari, V. Samara, S. Ptasinska, *Effects of Oxygen or Water in Plasma Jet Environment and Feed Gas on DNA Damage*. 64th American Vacuum Society International Symposium and Exhibition in Tampa, Florida. October 29-November 3, 2017
239. P. Sapkota, S. Ptasinska, *Ambient Pressure X-ray Photoelectron Spectroscopy of the III-V Semiconductor/Water Interface*. 64th American Vacuum Society International Symposium and Exhibition, Tampa, Florida. October 29-November 3, 2017
240. E. Adhikari, V. Samara, S. Ptasinska, *Influence of Oxygen or Water Vapor in a Plasma Jet and its Environment on DNA Damage*. Inaugural Colleges of Science & Engineering Joint Annual Meeting (COSE-JAM), Jordan Hall, Notre Dame, December 8, 2017
241. P. Sapkota, A. Cabrera, S. Ptasinska, *In situ Monitoring Copper-based Oxide/Water Interfacial Reactions by X-ray Photoelectron Spectroscopy*. American Physical Society, March Meeting 2018, Los Angeles, California, March 5-9, 2018
242. J. Cartelli, D. Ullery, B. Storke, S. Hernandez, F. Walz, M.S. Devadas, S. Ptasinska, R. Kolagani, *Effects of Fluorination on the Structural and Electrical Properties of Epitaxial $La_{0.67}Ca_{0.33}MnO_{3-y}$ Thin Films*. American Physical Society, March Meeting 2018, Los Angeles, California, March 5-9, 2018
243. E. Wellman, E. Adhikari, S. Ptasinska, *Atmospheric Pressure Plasma Jets for Biomedical Applications*, the College of Science Joint Annual Meeting (COS-JAM), University of Notre Dame, May 4, 2018
244. E. Adhikari, V. Samara, S. Ptasinska, *Influence of O_2 or H_2O in a Plasma Jet and Its Environment on Plasma Electrical and Biochemical Performances*, Gordon Research Conference (GRC/GRS): Plasma Processing Science, Smithfield, RI, USA, August 4-10, 2018
245. E. Adhikari, V. Samara, K. Jammeh, S. Ptasinska, *In situ Measurements of Total Yield of Species Originating from Plasma Jets*, 71st Annual Gaseous Electronics Conference (GEC 2018), Portland, Oregon, November 5-9, 2018
246. E. Adhikari, V. Samara, S. Ptasinska, *Total Yield of Reactive Species Originating from an Atmospheric Pressure Plasma Jet in Real Time*. 2nd Annual Colleges of Science and Engineering Joint Annual Meeting (COSE-JAM), Notre Dame, Indiana, December 7, 2018.
247. B.C. Wood, T. Ogitsu, T.A. Pham, X. Zhang, S. Ptasinska, *Integrating simulations and experiments to probe complex photoelectrochemical interfaces under realistic operating conditions*. Spring Meeting of the American Chemical Society, Orlando, Florida, March 31-April 4, 2019
248. D. Lipa, E. Adhikari, S. Ptasinska, *The Effect of Hydrogen Peroxide Gas from an Atmospheric Pressure Plasma Jet on Aqueous DNA*. 13th College of Science - Joint Annual Meeting (COS-JAM) Notre Dame, Indiana, May 3, 2019
249. X. Zhang, T. Ogitsu, B.C. Wood, T.A. Pham, S. Ptasinska, *Revealing Oxidation Mechanisms onto Semiconductor Surfaces*. 41st Department of Energy Solar Photochemistry Principle Investigator Meeting in Gaithersburg, Maryland, June 3-5, 2019
250. Z. Li, M. Ryszka, M.M. Dawley, I. Carmichael, K.B. Bravaya, S. Ptasinska, *Electron-Induced Fragmentation of Peptide Model Molecules*. 8th POSMOL 2019: (XX International Workshop on Low-Energy Positron and Positronium Physics and XXI International Symposium on Electron-Molecule Collisions and Swarms) Belgrade, Serbia, July 18-20, 2019
251. A.R. Milosavljević, D.K. Božanić, D. Danilović, P. Sapkota, N. Vukmirović, S. Sadhu, R. Dojčilović, W. Huang, J. Bozek, C. Nicolas, L. Nahon, S. Ptasinska, *Investigation of the electronic structure of energy conversion nanosystems by combined surface XPS and synchrotron-based gas-phase VUV/X-ray PES*. XXXI International Conference on Photonic, Electronic, and Atomic Collisions (ICPEAC) Deauville, France, July 23-30, 2019

252. S.A. Pshenichnyuk, I.I. Fabrikant, A. Modelli, S. Ptasińska, A.S. Komolov, *Resonance electron interaction with heterocyclic compounds: Vibrational Feshbach resonances and hydrogen atom stripping*. XXXI International Conference on Photonic, Electronic, and Atomic Collisions (ICPEAC) Deauville, France, July 23-30, 2019
253. J. Ameixa, E. Arthur-Baidoo, J. Pereira-da-Silva, M. Ryszka, F. Ferreira da Silva, I. Carmichael, S. Ptasińska, S. Denifl, *Low-energy electron interactions with benzaldehyde*. 1st NOVA Biophysica, Lisbon, Portugal, September 4-6, 2019
254. A. Sebastian, S. Ptasińska, *Atmospheric Pressure Plasma: An Alternative Tool for the Synthesis of Efficient Photocatalytic Materials*. Sustainability Expo, Notre Dame Energy Week, University of Notre Dame, Notre Dame, Indiana, September 17, 2019.
255. A. Sebastian, S. Ptasińska, *Predictive modeling of plasma-induced DNA damage: A machine learning approach to plasma*. 23rd International Summer School (October 5-10, 2019) and Master classes (October 10-12, 2019) on Low Temperature Plasma Physics: Basics and Applications, Bad Honnef, Germany, October 5-12, 2019
256. P. Sapkota, S. Ptasińska, *In-situ X-ray Photoelectron Spectroscopic Study of III-V Semiconductor/H₂O Interfaces under Light Illumination*. American Vacuum Society (AVS) 66th International Symposium & Exhibition, Columbus, Ohio, October 20-25, 2019
257. A. Sebastian, *Atmospheric Pressure Plasma: An Alternative Tool for the Synthesis of Efficient Photocatalytic Materials*. American Vacuum Society (AVS) 66th International Symposium & Exhibition, Columbus, Ohio, October 20-25, 2019
258. D. Lipa, S. Ptasińska, *Modeling of the damage done by an atmospheric pressure plasma to aqueous DNA*. Fall Undergraduate Research Fair (FURF), University of Notre Dame, Notre Dame, Indiana, October 31, 2019
259. T. Tarkleson, S. Ptasińska, *New methods in cancer radiation research: thymine fragmentation, IR spectroscopy, and 3-D printing technology*. Fall Undergraduate Research Fair (FURF), University of Notre Dame, Notre Dame, Indiana, October 31, 2019
260. A. Sebastian, S. Ptasińska, *Predictive modeling of plasma-induced DNA damage: A machine learning approach to plasma medicine*. Graduate Physics Society Annual Conference, University of Notre Dame, Notre Dame, Indiana, November 13, 2019
261. A. Sebastian, S. Ptasińska, *Atmospheric Pressure Plasma: An Alternative Tool for the Synthesis of Efficient Photocatalytic Materials*. Annual Colleges of Science and Engineering Joint Annual Meeting (COSE-JAM), Notre Dame, Indiana, December 13, 2019
262. D. Danilović, D.K. Božanić, N. Vukmirović, P. Sapkota, R. Dojčilović, V. Đoković, L. Nahon, J. Bozek, Ch. Nicolas, S. Ptasińska, A.R. Milosavljević, *VUV/X-ray Photoelectron Spectroscopy of Nanocrystals for Solar Cells Absorbers Isolated in vacuo*. 1st annual meeting of the COST Action CA18212 "Molecular Dynamics in the GAS phase" – MD-GAS, Caen, France, February 18-21, 2020
263. X. Zhang, T.A. Pham, B. Wood, D. Prendergast, S. Ptasińska, T. Ogitsu, *Probing electrochemical processes at surfaces and interfaces by a combination of ab-initio simulations and in-situ characterizations*. American Physical Society, March Meeting 2020, March 2-6, 2020 (virtual)
264. P. Kinkopf, A. Sebastian, S. Ptasińska, *Optimizing Plasma-Induced DNA Damage for Atmospheric Pressure Plasma Jets*. Fall Undergraduate Research Fair (FURF), University of Notre Dame, Notre Dame, October 8, 2020 (virtual)
265. D. Lipa, A. Sebastian, S. Ptasińska, *Using Machine Learning to Predict Aqueous DNA Damage Caused by an Atmospheric Pressure Plasma Jet*. Fall Undergraduate Research Fair (FURF), University of Notre Dame, Notre Dame, October 8, 2020 (virtual)
266. A. Sebastian "Blending machine learning and thermal engineering for plasma diagnostics: A predictive modeling study using plasmid DNA" 73rd Gaseous Electronics Conference (GEC) 2020, October 5-9, 2020 (virtual)

267. D. Chakraborty, Eckermann, I. Carmichael, S. Ptasinska, *Dissociative electron attachment studies of molecules containing amide bond*. 73rd Gaseous Electronics Conference (GEC) 2020, October 5-9, 2020 (virtual)
268. A. Sebastian, S. Ptasinska, *A novel plasma diagnosis approach via physics guided neural networks: A predictive modeling study using plasmid DNA*. 3rd International Conference on Data-Driven Plasma Science (ICDDPS-3), March 29-April 2, 2021 (virtual)
269. D. Lipa, A. Sebastian, S. Ptasinska, *Using Machine Learning to Predict Aqueous DNA Damage Caused by an Atmospheric Pressure Plasma Jet*. ” ND College of Science Joint Annual Meeting (COS-JAM), University of Notre Dame, Notre Dame, May 12, 2021 (virtual)
270. L. Eckermann, D. Chakraborty, I. Carmichael, S. Ptasinska, *Dissociative electron attachment to N-methylacetamide*. POSMOL/EMS 2021 conference (XXII International Symposium on Electron-Molecule Collisions and Swarms), July 29-30, 2021 (virtual)
271. S. Ptasinska, *Re-Evaluating Routes of Oxidation of III-V Semiconductor Surfaces*. U.S. Department of Energy-Basic Energy Science Solar Photochemistry Principle Investigators’ Meeting, June 8-10, 2022 (virtual)
272. A. Casotto, L. Sangletti, S. Ptasinska, *Probing acetone adsorption on SAM-functionalized ZnO nanowires through NAP-XPS*, Università Cattolica del Sacro Cuore, Italy, January 25, 2023 (virtual)
273. A. Milosavljević, C. Nicolas, G. Garcia, J. Bozek, L. Nahon, D. Bozanic, D. Radinovic, R. Dojclovic, J. Pajovic, V. Djokovic, N. Vukmirovic, P. Sapkota, W. Huang, S. Sadhu, S. Ptasinska, *Measuring of Electronic Properties of free standing lead halide perovskite nanocrystals isolated in vacuo at SOLEIL*. Workshop: Large Scale Facilities and Hybrid Perovskite, SOLEIL, Orsay, France, February 2, 2023
274. D. Chakraborty, S. Ptasinska, *Dynamics of resonant low energy electron attachment to ethanol producing hydroxide anions*. POSMOL 2023, University of Notre Dame, IN, August 3-6, 2023
275. B. de Campos Silva, S. Ptasinska, *Exploring Plasma Radiation Effects on Solution pH for Medical Applications*. “Talk Science” seminar series, ND College of Science, October 5, 2023
276. D. Chakraborty, P. Anirban, S. Ptasinska, I. Carmichael, N. Dhananjay, *Dissociation dynamics of low energy electron attachment to carbon disulfide studied using velocity slice imaging technique* 76th Annual Gaseous Electronics Conference (GEC) Ann Arbor, MI, October 9 - 13, 2023
277. B. de Campos Silva, S. Ptasinska, *Exploring the Effects of Plasma Radiation on the pH of Solutions for Potential Medical Applications*. Fall Undergraduate Research Fair (FURF) at Notre Dame, October 26, 2023
278. A. Bittinger, S. Ptasinska, I. Carmichael, *Dissociative electron attachment to ethanol: resonance energies and fragmentation pathways*. Conference for Undergraduate Women in Physics (CUWiP 2024), Georgia Institute of Technology, Atlanta, GA, January 19-21, 2024
279. B. Campos de Silva, S. Ptasinska, *Exploring the Effects of Plasma Radiation on the pH of Solutions for Potential Medical Applications*. Conference for Undergraduate Women in Physics (CUWiP 2024), University of Michigan, Ann Arbor, MI, January 19-21, 2024
280. G. Kharchilava, D. Chakraborty, S. Ptasinska, *Resonant low energy electron capture and fragmentation pathways of anisole*. American Physical Society (APS) March Meeting, March 3 - 8, 2024 Minneapolis & Virtual (virtual)

MENTORING

Post-doctoral researchers	Current:	Dipayan Chakraborty
	Former:	Krishna Arjunan, Soumya Banerjee, M. Michele Dawley, Surja Ghale, Matej Klas, Michal Ryszka, Subha Sadhu, Vladimir Samara, Denis A. Sokolov
Graduate students	Current:	Bo-An Chen (Chemistry) Cecilia Garcia Villavicencio (Physics)

		Jason King (Chemistry)
	Former:	Agnieszka Stypczynska (grad. in 2011 OU UK) Ek Adhikari (Physics, PhD 2019) Andrea Casotto (dual International PhD student in Science, PhD 2023) Lauren Eckermann (Chemistry, MSc 2022) Xu Han (Physics, PhD 2017) Weixin Huang (Chemistry, PhD 2017) James Kapaldo (Physics, PhD 2018) Zhou Li (Physics, PhD 2017) Evan Panken (non-degree program F2016) Pitambar Sapkota (Physics, PhD 2021) Amal Sebastian (Physics, PhD 2023) Iogann Tolbatov (Physics, PhD 2015) Xueqiang Zhang (Chemistry, PhD 2016)
Undergraduate students	Current:	Jacob Finley (Physics, AL/SC Honors Program), Chris Giaimo (Biological Sciences), Giorgi Kharchilava (Physics, AL/SC Honors Program), Anesu Matara (Physics in Medicine, AL/SC Honors Program), Beatriz de Campos Silva (Physics in Medicine, AL/SC Honors Program)
	Former:	Patricia Alquiza (Environmental Sciences), Emily Bell (REU student, Monmouth College), Elizabeth Briley (REU student, UC Long Beach), John Brems (Physics in Medicine), E. Victoria Canseco (REU student, U Texas at El Paso), Alex Cantrell (Science Business), Daniel Childers (Physics in Medicine, Honors Program), Spencer Clark (Physics, Honors Program), Ben Coffey (Electrical Engineering & ROTC), Erika Escobar (REU student, UC Long Beach), Chris Ferari (Neuroscience and behavior), Mattison Flakus (REU student U Rochester), Victor Garcia (REU student, U Texas at El Paso), Richard Garnett (COOP student), Zach Imholte (Electrical Engineering, Physics), Neil Jairath (Computer Science), Kemo Jammeh (Mathematics, Physics, and Biochemistry, Berea College), Andrew Jensen (Science Business), Taylor Johnson (Physics in Medicine), Brendan Jones (Physics), Justin Jones (pre-professional), Joanna Kabuye (Pre-professional), Jacob Kennard (biochemistry), Paul Kinkopf (Honors Program, Physics in Medicine), Tessa Klein (Physics, Honors Program), Emmy Kunce (Honors Program, Physics in Medicine), Kinsey Lee (REU student, Scripps College), Joe Levri (Electrical Engineering), Daniel Lipa (Applied and Computational Mathematics and Statistics), Catie Luck (RUE student, Thomas More College), Gonzalos Mallea (Mechanical engineering), Raymond Mumme (Physics, Chemistry), Max Nguyen (Physics), Andrew Porrazzo (Neuroscience and Behavior), Melissa Quevedo (REU student, University of Atlántico, Colombia), Neal Ravindra (Physics in Medicine), Emil Sundang Peters (Stockholm University, Sweden), Harrison Schurr (Physics in Medicine), Diana Spulber (Applied and Computational Mathematics and Statistics, Physics, Honors Program), Tanner Tarkleson (Honors Program, Neuroscience and Behavior), Cole Weber (Physics in Medicine), Wai Yeng Wong (Chemical Engineering, Economy), Elek Wellman (Neuroscience and Behavior), Daniel Williams (Physics), Hulin (John) Yang (REU student Xi'an Jiao Tong University), James Yurkovich (Electrical Engineering), Wei Zha (REU student Xi'an Jiao Tong University)

High school students Current: ---
 Former: Christian Huntington, Benjamin Kolda, Emmy Kunce, Joseph Patus,
 Pramod Kamalopathy

COURSES TAUGHT (while at ND) (S-spring, F-fall)

S2011, S2012, S2013	PHYS 20330	General Physics III
S2014, S2015, S2016, S2017	PHYS 40432	Biological Physics
F2015, S2016, F2016, S2017	FYS 10101-2	Moreau First Year Experience
S2018	PHYS 11422	Physics B Lab: Electricity and Magnetism
S2019	PHYS 10310	Engineering Physics I: Mechanics
F2020, F2021, F2022	PHYS 40435	Physics of the Brain
F2023	PHYS 20210	Physics for Life Sciences I

SERVICE TO PROFESSION

2023	Conference chair and local organizer: POSMOL 2023: XXI International Workshop on Low-Energy Positron and Positronium Physics and XXIII International Symposium on Electron-Molecule Collisions and Swarms, University of Notre Dame, Notre Dame, IN, August 3-6, 2023
2023	Workshop organizer, Laboratory-Based Ambient-Pressure X-ray Photoelectron Spectroscopy Focus Topic Workshop and chaired the session on Laboratory-Based AP-XPS: Advances in Instrumentation and Applications at the 69th American Vacuum Society International Symposium and Exhibition in Portland, Oregon, November 5-10, 2023
2021	Workshop organizer for Gaseous Electronic Conference (GEC): Electron Scattering Processes: fundamentals, challenges, opportunities, and advances, October 4, 2021 (virtual)
2021	Conference organizer: POSMOL/EMS 2021 (XXII International Symposium on Electron-Molecule Collisions and Swarms), July 29-30, 2021 (virtual)
2020-present	Editor in Chief of European Physical Journal D: Atomic, Molecular, Optical and Plasma Physics
2019, 2020	Executive Committee Officer of Gaseous Electronics Conference (Treasurer)
2018-2020	Guest editor for Multidisciplinary Digital Publishing Institute (MDPI) journals: Plasma (Atmospheric Pressure Plasma Sources Applied in Biological Systems) and Materials (Atmospheric Pressure Plasmas in Material Science)
2017-present	Electron-Molecule Collisions and Swarms (EMS) Advisory committee
2016-present	Editorial Board of Multidisciplinary Digital Publishing Institute (MDPI) journal: Plasma
2016	Discussion Leader (Biotechnology session): NSF workshop on Science Challenges in Low Temperature Plasma Science and Engineering: Enabling a Future Based on Electricity through Non-Equilibrium Plasma Chemistry, Washington DC, August 22-23 2016
2015/2016	Guest editor for a European Physical Journal D topical issue on Low-Energy Interactions Related to Atmospheric and Extreme Conditions
2014,2016	NSF and DOE proposal review panelist
Since 2014	NSF and DOE proposal reviewer
2015-present	Editor: European Physical Journal D: Atomic, Molecular, Optical and Plasma Physics Co-Editor: Journal of Chemistry, Special Issue: Early Stages in the Damage Biological Systems Induced by Radiation
2013	US member of COST Action: Nano-IBCT (Nano-Ion Beam Cancer Therapy)
2012-2015	Member of DEA (Dissociative Electron Attachment) club
2015-present	Reviewer of scientific articles: physics, chemistry, physical-chemistry, and engineering journals Chairing sessions:

- 14th International Congress of Radiation Research, 28 August-1 September 2011, Warsaw, Poland. Eye Opener session
- Gordon Research Conference: Radiation Chemistry Radiation Driven Processes in Physics, Chemistry, Biology and Industry, Andover, NH, USA, July 29 - August 3 2012, Young investigator session
- Collaborative Conference on 3D & Materials Research (3DMR), Incheon, South Korea, June 23-27, 2014
- 1st International Conference on Ionizing Processes, Brookhaven National Laboratory, Upton, NY October 10-14, 2016, Young investigator session
- 8th POSMOL 2019: (XX International Workshop on Low-Energy Positron and Positronium Physics and XXI International Symposium on Electron-Molecule Collisions and Swarms) Belgrade, Serbia, July 18-20, 2019
- Electron Molecule Collisions and Related Topics, 72nd Annual Gaseous Electronics Conference (GEC 2019), College Station, TX, October 28 – November 1, 2019
- Collisions involving positron and positronium, 73rd Annual Gaseous Electronics Conference (GEC 2019), October 5-9, 2020 (virtual)
- Electron Scattering, 32nd International Conference on Photonic, Electronic and Atomic Collisions (ViCPEAC), July 20-23, 2021 (virtual)
- Laboratory-Based AP-XPS: Advances in Instrumentation and Applications at the 69th American Vacuum Society International Symposium and Exhibition in Portland, Oregon, November 5-10, 2023

UNIVERSITY SERVICE

	University:
2019-2020	ND Learning's Kaneb Center Faculty Fellow
2019	Dean of Science Review Committee Member
2018-2022	University council for Academic Technologies, College of Science Representative
2017-2022	Valedictorian Selection Committee
2016-2019	Faculty Senator, Dept. Phys. Representative
2016-present	Steering committee member for the International PhD Program in Material Science between Università Cattolica del Sacro Cuore, Katholieke Universiteit Leuven, University of Notre Dame du Lac and Pontificia Universidad Católica de Chile
2016/2017	Campus Life Council
2012-2015	Faculty Senator, at large
	College:
2017-present	Biophysics graduate program Steering Committee
2015-2019	Elected member of College of Science Council
2015-2020	College of Science Biophysics Committee Member
2016-2018	Virtuous Scientist Science Working Group
	Department of Physics:
2019-2021	Colloquium Committee
2018-2019	Demonstrations & Instructional Labs
2016-present	Graduate Admission
2015-2018	Strategic Planning/Departmental Review
2011-2014, 2016-2021	Safety Committee Member

2010-2016, 2022-present	Graduate Recruitment Committee Member
2012-2014	Undergraduate Research Committee Member
2011-2013	Research Services
	Radiation Laboratory
2011-present	Safety Committee
2014-2018	Seminar Organizers
	Other:
2011-2016, 2018	Panelist of International Teaching Assistant Workshop organized by KANEB

OUTREACH

- Radiation Laboratory tours and seminars for undergraduate students and campus visitors
- “Lunch’n’Learn” seminar (ND, 2011)
- Notre Dame Department of Physics representative at Physics Congress (PhysCon 2012, Orlando Florida)
- Lunch Discussion Leader (“Mentoring Undergraduate Students) and resume and CV reviewer at the AWIS Women in Science Conference on October 1, 2016 Notre Dame
- Women in Physics Lunch on October 5, 2016, Department of Physics, Notre Dame
- “Plasma: From Lightning to Medical Applications” as part of the Our Universe Revealed: Physics for Everyone lecture series, Notre Dame, IN, September 27, 2016
- Judge in the Northern Indiana Regional Science and Engineering Fair (2012-2015, 2017-2018)
- Notre Dame Department of Physics representative at the Society of Black Physicists meeting (2017)
- Panelists on discussion about Self-Reflection as a Pathway to Improve Teaching organized by Notre Dame Learning, Kaneb Center (2020)
- Advisor for Notre Dame Polish Club – Kielbasa (from 2021)
- Panelist “Insights on the Publication Process From Notre Dame Faculty: Journal Editors” Notre Dame Colleges of Science and Engineering, September 12, 2023